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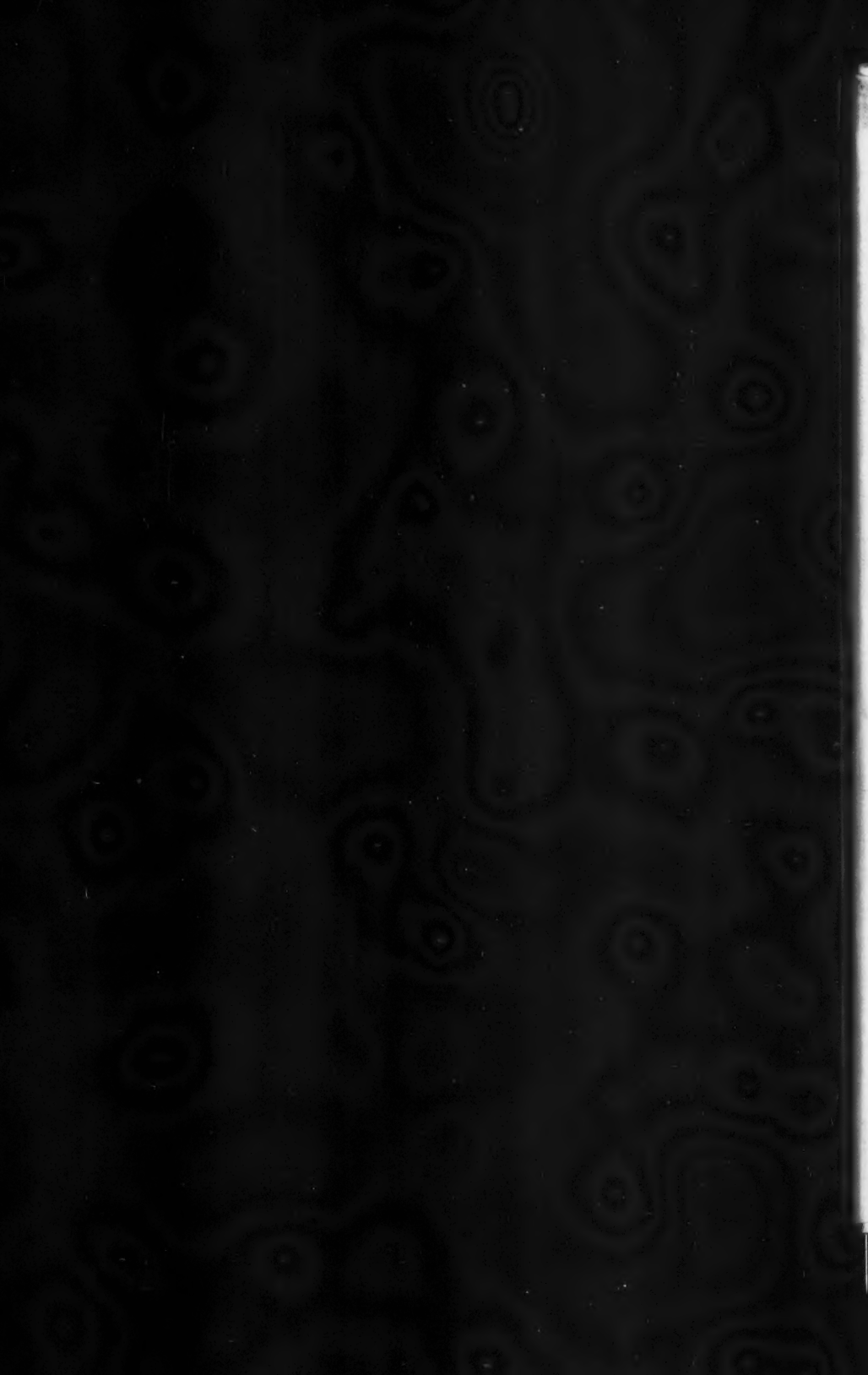
AUTOMOBILE FACTS AND FIGURES



AUTOMOBILE
MANUFACTURERS
ASSOCIATION

1 9 3 5
EDITION






Automobile Facts and Figures

1935 EDITION

(Figures for Calendar Year 1934)

 CONTINUED recovery marked the year nineteen hundred thirty-four in the automobile industry. Production increased 44%, domestic retail sales gained 32%, and foreign sales climbed 76% over the preceding year.

The use of motor vehicles expanded 4.6% over nineteen thirty-three.

Although the replacement market absorbed practically all new vehicles sold, there appeared again a not inconsiderable number of buyers who bought a car for the first time.

Employment rose 44% and payrolls expanded 59% above the previous year. Hourly wage rates were maintained in excess of the nineteen twenty nine level.

Taxes on motor vehicle owners climbed to unprecedented heights, reaching one billion two hundred million dollars.

New data on employment in all branches of the motor transport industry is shown for the first time classified by states, more than five million persons being at work in all states of the Union.

Extracts from this book may be used with or without credit.

AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

366 Madison Avenue, at 46th Street, New York, N. Y.

Detroit
General Motors Bldg.

Washington, D. C.
Transportation Bldg.

Cable Address: Automakers

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Rich Roy

Automobile Manufacturers Association, Inc.

366 MADISON AVE., AT 46TH ST., NEW YORK CITY, U. S. A.

Detroit, Mich.
General Motors Building

Washington, D. C.
Transportation Building

OFFICERS

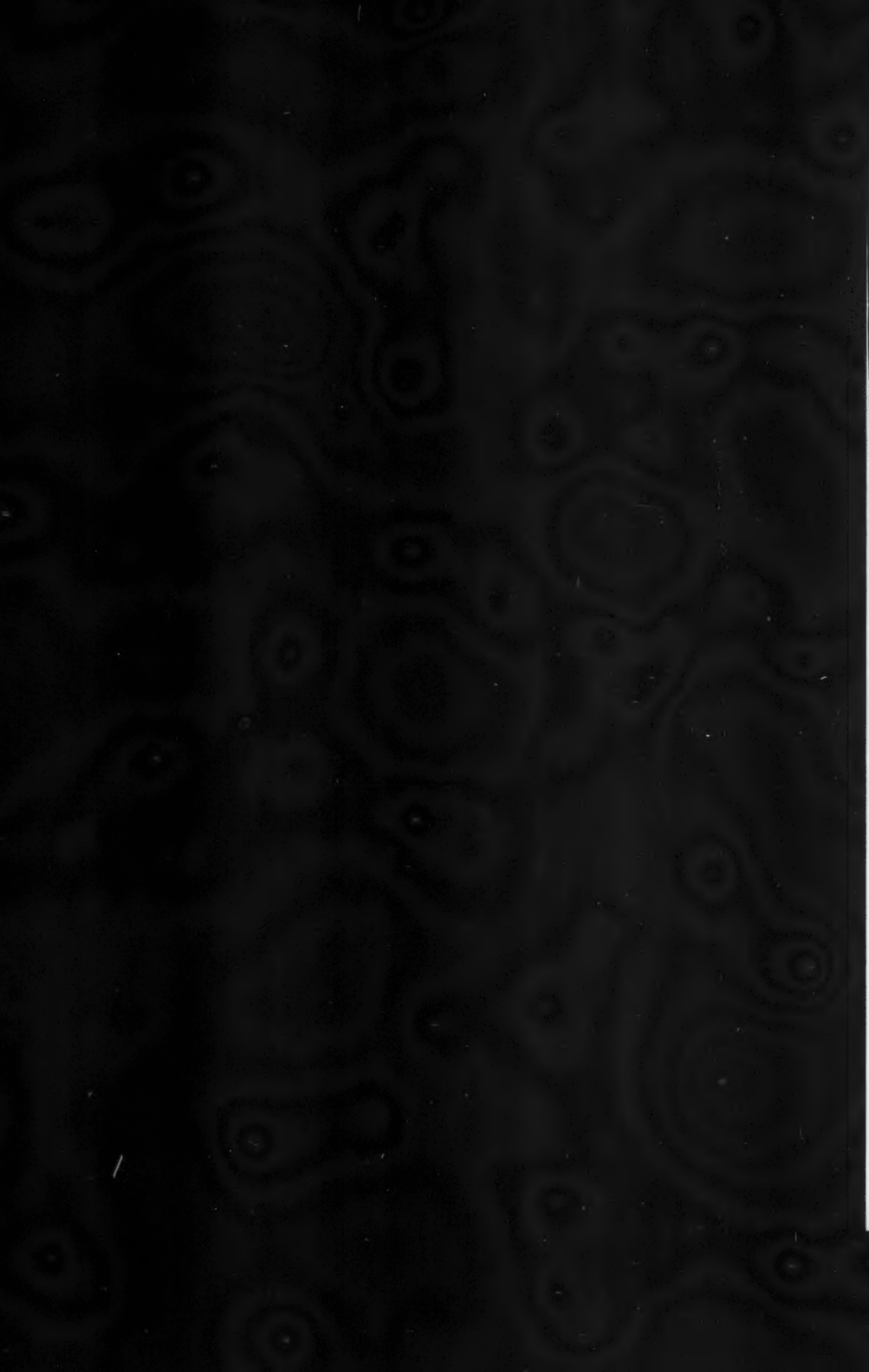
President.....ALVAN MACAULEY.....Packard Motor Car Company
First Vice-President.....ALFRED H. SWAYNE.....General Motors Corporation
Vice-President.....CHARLES W. NASH.....The Nash Motors Company
Passenger Car Division
Vice-President.....A. J. BROSEAU.....Mack Bros. Motor Car Company
Commercial Car Division
Vice-President.....ALFRED REEVES.....New York
Vice-President.....PYKE JOHNSON.....Washington, D. C.
Secretary.....BYRON C. FOY.....DeSoto Motor Corporation
Treasurer.....F. J. HAYNES.....Detroit, Michigan

BOARD OF DIRECTORS

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ROY D. CHAPIN.....Hudson Motor Car Company
WALTER P. CHRYSLER.....Chrysler Corporation
T. R. DAHL.....The White Motor Company
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ALFRED P. SLOAN, JR.....General Motors Corporation
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Assistant General Manager.....JAMES S. MARVIN
Manager, Statistical Department.....O. P. PEARSON

(A list of members and committees is given on pages 89-93)



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1934

in the

Automobile Industry

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Production (United States and Canada) 2,869,963

Passenger cars, 2,270,566 Trucks 599,397

**Wholesale Value, Motor Vehicles, Parts
and Tires** \$2,493,198,716

Cars (United States and Canada) . . . \$1,204,376,351

Trucks (United States and Canada) . . . 332,913,985

Parts sold by motor vehicle manu-
facturers 203,411,380

Replacement parts, accessories, tires
and service equipment 752,497,000

Foreign Sales of American Motor Vehicles 427,374

Registration (United States) 24,913,403

Cars 21,504,068 Trucks 3,409,335

Motor Vehicle Manufacturing Business in U. S.

Capital invested (net tangible assets)
in car and truck factories \$1,281,312,000

Number employed in car and truck
factories 273,163

Wages and salaries \$371,947,239

Number employed directly and in-
directly 5,065,000

Number of Passenger Car Dealers in U. S. 35,977

Number of Workers in Sales and Service (1933) 1,121,745

Production and Wholesale Value

	PASSENGER CARS		MOTOR TRUCKS		TOTAL CARS AND TRUCKS	
	Number	Value	Number†	Value†	Number	Value
\$1900..	4,192	\$4,899,443	.....	.....	4,192	\$4,899,443
1901..	7,000	8,183,000	.....	.....	7,000	8,183,000
1902..	9,000	10,395,000	.....	.....	9,000	10,395,000
1903..	11,235	13,000,000	.....	.....	11,235	13,000,000
\$1904..	22,419	23,682,492	411	\$946,947	22,830	24,629,439
1905..	24,550	39,030,000	450	970,000	25,000	40,000,000
1906..	33,500	61,850,000	500	1,050,000	34,000	62,900,000
1907..	43,300	92,040,000	700	1,360,000	44,000	93,400,000
1908..	63,500	135,250,000	1,500	2,550,000	65,000	137,800,000
\$1909..	127,731	159,918,506	3,255	5,230,023	130,986	165,148,529
1910..	181,000	215,340,000	6,000	9,660,000	187,000	225,000,000
1911..	199,319	225,000,000	10,681	21,000,000	210,000	246,000,000
1912..	356,000	335,000,000	22,000	43,000,000	378,000	378,000,000
1913..	461,500	399,902,000	23,500	44,000,000	485,000	443,902,000
\$1914..	543,679	413,859,379	25,375	45,098,464	569,054	458,957,843
1915..	895,930	575,978,000	74,000	125,800,000	969,930	701,778,000
1916..	1,525,578	921,378,000	92,130	161,000,000	1,617,708	1,082,378,000
1917..	1,745,792	1,053,505,781	128,157	220,982,668	1,873,949	1,274,488,449
1918..	943,436	801,937,925	227,250	434,168,992	1,170,686	1,236,106,917
1919..	1,657,652	1,461,785,925	275,943	423,326,621	1,933,595	1,885,112,546
1920..	1,905,560	1,809,170,963	321,789	423,249,410	2,227,349	2,232,420,373
†1921..	1,518,061	1,091,752,452	164,304	169,914,098	1,682,365	1,261,666,550
†1922..	2,369,089	1,561,740,645	277,140	231,282,063	2,646,229	1,793,022,708
†1923..	3,753,945	2,274,554,488	426,505	317,478,940	4,180,450	2,592,033,428
†1924..	3,303,646	2,040,706,519	434,140	326,706,496	3,737,786	2,367,413,015
†1925..	3,870,744	2,544,528,799	557,056	470,634,763	4,427,800	3,015,163,562
†1926..	3,948,843	2,746,064,722	556,818	468,752,769	4,505,661	3,214,817,491
†1927..	3,083,360	2,265,633,102	497,020	435,072,641	3,580,380	2,700,705,743
†1928..	4,012,158	2,703,753,500	588,983	459,045,380	4,601,141	3,162,798,880
†1929..	4,794,898	2,981,141,842	826,817	595,504,039	5,621,715	3,576,645,881
†1930..	2,910,187	1,720,652,104	599,991	405,949,915	3,510,178	2,126,602,019
†1931..	2,038,183	1,153,907,947	434,176	272,748,305	2,472,359	1,426,656,252
†1932..	1,186,185	650,781,297	245,282	142,264,003	1,431,467	793,045,300
†1933..	1,627,361	795,304,780	358,548	192,131,509	1,985,909	987,436,289
†1934..	2,270,566	1,204,376,351	599,397	332,913,985	2,869,963	1,537,290,336

Foreign assemblies of parts made in U. S. but assembled abroad are included in this table.

†Figures for 1921 to date are "factory sales" for U. S. plants and "production" for Canadian plants. See page 11 for Canadian production and wholesale value.

\$From United States Census reports. 1900 for fiscal year ended June 30, 1900.

†A substantial part of the trucks reported comprise chassis only without body; hence the value of bodies for these chassis is not included.

Annual Percentage Change in Production

(United States and Canada)

Year	Pasenger Cars	Motor Trucks	Total	Year	Pasenger Cars	Motor Trucks	Total
1923..	58.4%	53.9%	58.0%	1929..	19.5%	40.4%	22.2%
1924..	-12.0%	1.8%	-10.6%	1930..	-39.3%	-27.4%	-37.6%
1925..	17.2%	28.3%	18.5%	1931..	-29.9%	-27.6%	-29.6%
1926..	2.0%	-0.04%	1.8%	1932..	-41.8%	-43.5%	-42.1%
1927..	-21.9%	-10.7%	-20.5%	1933..	37.2%	46.2%	38.7%
1928..	30.1%	18.5%	28.5%	1934..	39.5%	67.2%	44.5%

(-) means decrease.

Monthly Motor Vehicle Production

United States and Canada

(Figures from U. S. Census Bureau,* and Dominion Bureau of Statistics)

Passenger Car Production

Year	1928	1929	1930	1931	1932	1933	1934
Jan....	212,244	364,773	242,672	142,869	101,915	112,754	117,700
Feb....	301,320	431,755	293,036	187,948	98,604	93,153	193,875
Mar....	386,510	546,489	348,087	241,727	106,003	103,396	291,546
April...	384,778	571,956	393,804	300,960	126,597	156,712	303,806
May...	404,444	541,310	382,619	282,096	165,025	188,675	290,268
June...	381,026	469,260	298,130	215,979	166,646	213,602	272,090
July...	357,682	439,598	230,761	187,324	101,478	196,587	231,501
Aug....	422,996	452,857	190,864	158,851	79,073	196,333	190,825
Sept....	374,276	375,046	182,049	111,336	66,489	161,734	129,251
Oct....	351,899	328,305	117,014	59,176	37,468	107,593	86,128
Nov....	223,896	176,629	104,668	49,996	49,201	43,868	50,072
Dec....	211,087	96,920	126,483	99,921	87,710	52,954	113,504
Total..	4,012,158	4,794,898	2,910,187	2,038,183	1,186,209	1,627,361	2,270,566

Motor Truck Production

Year	1928	1929	1930	1931	1932	1933	1934
Jan....	27,947	57,765	40,938	35,475	21,160	19,429	44,870
Feb....	34,980	65,950	52,925	41,863	24,291	15,592	44,952
Mar....	44,273	79,587	69,031	47,671	21,274	18,508	61,068
April...	49,537	91,855	74,477	53,138	28,539	27,975	67,532
May...	55,281	94,940	62,080	47,805	27,491	35,132	60,348
June...	44,169	98,164	51,466	41,496	23,572	43,448	48,292
July...	59,630	78,703	44,960	35,386	15,137	39,310	44,546
Aug....	69,547	59,985	43,296	32,890	15,319	42,601	53,890
Sept....	62,231	54,683	46,557	31,876	20,003	35,874	46,335
Oct....	63,921	66,235	41,928	22,406	14,157	30,772	49,643
Nov....	45,013	50,368	37,493	20,118	12,560	19,106	35,107
Dec....	32,454	28,582	34,840	24,052	21,782	30,801	42,814
Total..	588,983	826,817	599,991	434,176	245,285	358,548	599,397

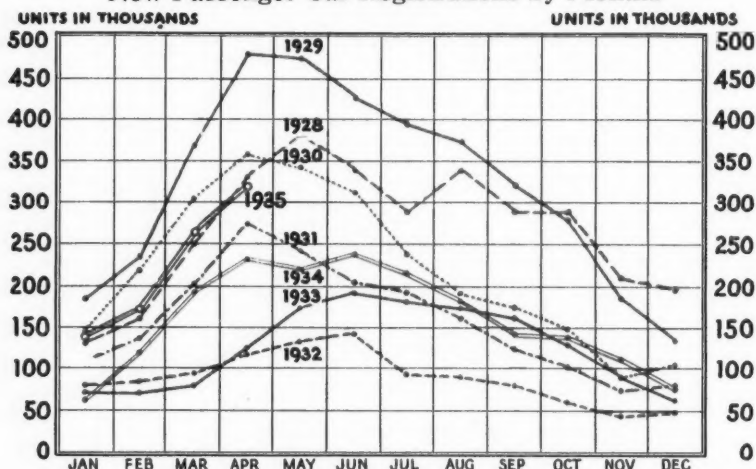
Passenger Car and Truck Production

Year	1928	1929	1930	1931	1932	1933	1934
Jan....	240,191	422,538	283,610	178,344	123,075	132,183	162,570
Feb....	336,300	497,705	345,961	229,811	122,895	108,745	238,827
Mar....	430,783	626,076	417,118	289,398	127,277	121,904	352,614
Apr....	434,315	663,811	468,281	354,098	155,136	184,687	371,338
May...	459,725	636,250	444,699	329,901	192,516	223,807	350,616
June...	425,195	567,424	349,596	257,475	190,218	257,050	320,382
July...	417,312	518,301	275,721	222,710	116,615	235,897	276,047
Aug....	492,543	512,842	234,160	191,741	94,392	238,934	244,715
Sept....	436,507	429,729	228,606	143,212	86,492	197,608	175,586
Oct....	415,820	394,540	158,942	81,582	51,625	138,365	135,771
Nov....	268,909	226,997	142,161	70,114	61,761	62,974	85,179
Dec....	243,541	125,502	161,323	123,973	109,472	83,755	156,318
Total..	4,601,141	5,621,715	3,510,178	2,472,359	1,431,494	1,985,909	2,869,963

*Includes overseas assemblies of motor vehicles of American make.

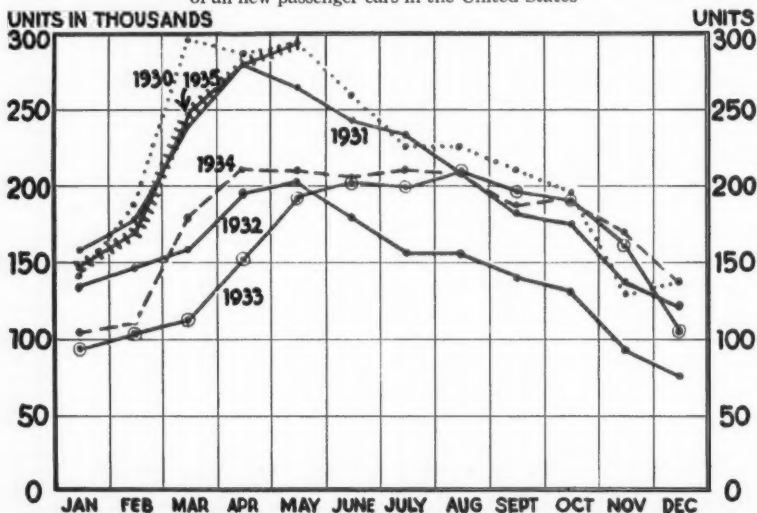
Consumer Demand Follows Seasonal Pattern

New Passenger Car Registrations by Months



Used Passenger Car Sales by Months

(The figures are based on reports from manufacturers whose dealers in 1934 sold 69% of all new passenger cars in the United States)



Sales of used cars follow the same distinct seasonal trend as new car sales, rising sharply to a peak in April or May and falling off during the remainder of the year.

New Motor Vehicle Registrations

(Please credit R. L. Polk & Company when reproducing figures)

New Passenger Car Registrations in U. S.

	1928	1929	1930	1931	1932	1933	1934
Jan. . .	136,071	219,760	180,094	126,776	87,493	79,821	61,242
Feb. . .	165,537	235,590	211,645	134,133	82,813	69,464	94,887
Mar. . .	254,214	377,802	298,824	200,841	92,192	78,741	173,287
April. .	332,056	481,675	357,064	265,732	121,093	119,909	223,050
May. . .	351,459	454,132	345,031	247,727	131,282	160,242	219,225
June. . .	317,069	386,398	260,861	201,911	148,752	174,190	223,864
July. . .	324,120	432,503	254,098	194,322	104,188	185,660	229,006
Aug. . .	329,674	376,886	203,737	155,744	93,457	178,661	193,198
Sept. . .	271,821	304,452	175,286	124,903	81,893	157,976	146,931
Oct. . .	284,939	288,697	150,219	102,659	63,195	136,326	140,937
Nov. . .	211,736	183,756	93,066	75,829	44,358	94,180	107,574
Dec. . .	160,883	138,555	96,054	77,564	45,683	58,624	75,356
Total.	3,139,579	3,880,206	2,625,979	1,908,141	1,096,399	1,493,794	1,888,557

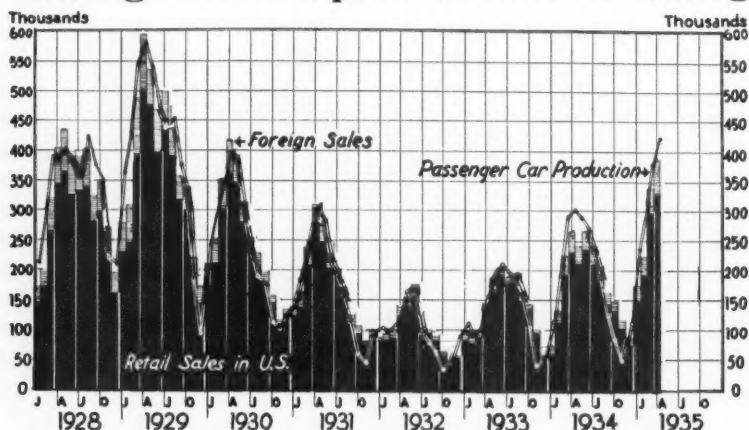
New Truck Registrations in U. S.

	1928	1929	1930	1931	1932	1933	1934
Jan. . .	16,431	29,900	30,236	24,415	14,776	11,709	22,903
Feb. . .	17,510	32,637	31,880	23,466	14,558	9,707	24,476
Mar. . .	24,698	46,368	42,199	30,609	16,874	9,934	33,884
April. .	30,272	56,299	47,029	36,848	17,784	17,301	38,882
May. . .	32,468	52,874	43,286	33,496	18,696	20,925	39,831
June. . .	29,155	45,114	33,531	28,496	17,876	23,254	34,768
July. . .	31,844	57,943	39,904	30,102	14,731	30,642	37,490
Aug. . .	36,753	52,557	33,787	27,070	15,081	28,799	40,790
Sept. . .	35,135	46,560	33,933	25,967	14,967	31,269	37,225
Oct. . .	40,890	49,899	34,237	24,685	15,156	28,058	40,878
Nov. . .	27,491	33,631	22,012	15,553	10,392	18,691	28,689
Dec. . .	18,476	23,275	18,665	13,177	9,522	15,580	24,070
Total.	341,123	527,057	410,699	313,884	180,413	245,869	403,886

Total New Passenger Car and Truck Registrations

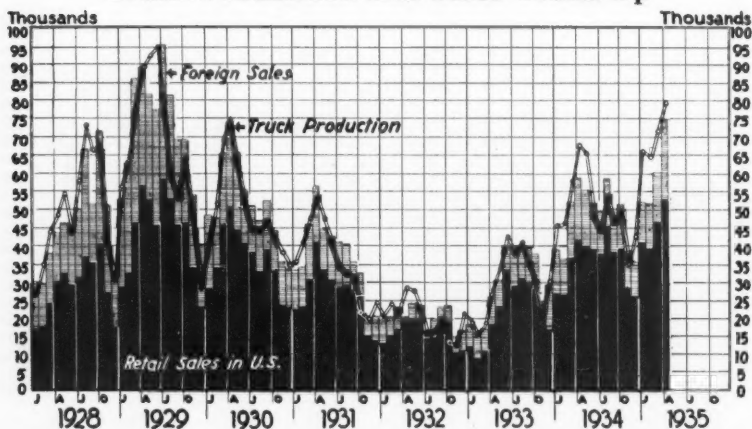
	1928	1929	1930	1931	1932	1933	1934
Jan. . .	152,502	249,660	210,330	151,191	102,269	91,530	84,145
Feb. . .	183,047	268,227	243,525	157,599	97,371	79,171	119,363
Mar. . .	278,912	424,170	341,023	231,450	109,066	88,675	207,171
April. .	362,328	537,974	404,093	302,580	138,877	137,210	261,932
May. . .	383,927	507,006	388,317	281,223	149,978	181,167	259,056
June. . .	346,224	431,512	294,392	230,407	166,628	197,444	258,632
July. . .	355,964	490,446	294,002	224,424	118,919	216,302	266,496
Aug. . .	366,427	429,443	237,524	182,814	108,538	207,460	233,988
Sept. . .	306,956	351,012	209,219	150,870	96,860	189,245	184,156
Oct. . .	325,829	338,596	184,456	127,344	78,351	164,384	181,815
Nov. . .	239,227	217,387	115,078	91,382	54,750	112,871	136,263
Dec. . .	179,359	161,830	114,719	90,741	55,205	74,204	99,426
Total.	3,480,702	4,407,263	3,036,678	2,222,025	1,276,812	1,739,663	2,292,443

Passenger Car Output and Sales Increasing



The passenger car production curve represents United States and Canadian output including foreign assemblies of parts produced in United States. Monthly vertical bars represent new car registration in United States and foreign sales (cross-hatched top portion). Foreign sales include exports from United States, foreign assemblies and Canadian production.

Truck Production and Sales Trend Up



Truck production curve includes output in United States, Canada and foreign assemblies of parts produced in United States. Foreign sales, represented by cross-hatched top portion of vertical bars, include exports from United States, Canadian production and foreign assemblies.

1934 Retail Sales Gain Greatest in Small Towns and on Farms

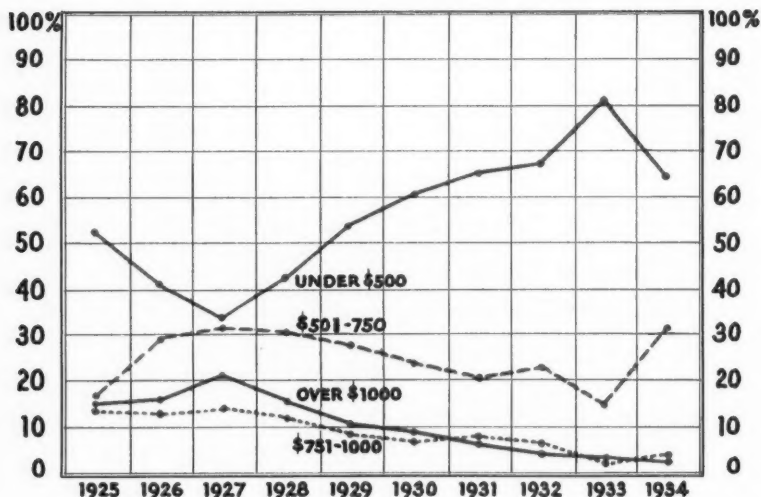
New Passenger Car Registrations in Towns Under 10,000 Population
Increase 38% and in Cities Over 10,000 18% Over 1933

(Figures through courtesy of R. L. Polk & Company and The Household Magazine)

TOWNS UNDER 10,000 AND FARMS			CITIES OVER 10,000			
	1933	1934	Per cent Increase	1933	1934	Per cent Increase
Maine.....	5,928	7,278	23	3,146	4,295	37
New Hampshire.....	3,898	4,387	13	2,699	3,524	31
Vermont.....	2,877	3,865	34	897	1,027	14
Massachusetts.....	26,737	29,764	11	36,511	40,772	12
Rhode Island.....	3,678	3,966	8	7,071	7,869	11
Connecticut.....	10,288	12,335	20	13,925	15,012	8
New England.....	53,406	61,595	15	64,249	72,499	13
New York.....	52,538	70,451	34	123,225	108,884	*12
New Jersey.....	25,476	27,247	7	30,962	33,814	9
Pennsylvania.....	48,561	59,991	24	72,864	87,174	20
Middle Atlantic.....	126,575	157,689	25	227,051	229,872	1.2
Delaware.....	2,252	2,757	22	1,867	2,111	13
Maryland.....	9,012	11,197	24	11,181	13,733	23
D. of C.....				14,375	18,523	29
Virginia.....	12,327	19,306	57	9,853	12,066	22
West Virginia.....	8,721	14,072	61	6,605	7,957	20
North Carolina.....	16,912	30,115	78	12,279	15,836	29
South Carolina.....	9,043	13,086	45	5,548	6,810	23
Georgia.....	11,348	16,932	49	12,771	16,303	28
Florida.....	9,177	14,083	53	8,747	12,634	44
South Atlantic.....	78,792	121,548	54	83,226	105,973	27
Ohio.....	28,886	39,549	40	72,327	88,896	23
Indiana.....	16,279	20,824	28	23,897	32,323	35
Illinois.....	27,742	32,543	17	57,718	76,744	33
Michigan.....	19,560	27,859	42	66,122	81,914	24
Wisconsin.....	11,820	17,745	50	16,488	23,263	41
East North Central.....	104,287	138,520	33	236,552	303,140	28
Kentucky.....	10,513	15,591	48	9,803	10,298	5
Tennessee.....	8,464	13,571	60	11,416	14,506	27
Alabama.....	7,031	14,216	102	7,483	11,344	52
Mississippi.....	7,243	11,624	60	3,385	4,280	26
East South Central.....	33,251	55,002	65	32,087	40,428	26
Minnesota.....	12,281	17,334	41	18,548	20,239	9
Iowa.....	14,342	22,498	57	12,944	16,121	25
Missouri.....	15,758	20,140	31	30,015	35,445	18
North Dakota.....	3,633	5,164	42	1,630	2,529	55
South Dakota.....	3,949	6,063	54	900	1,134	26
Nebraska.....	8,613	12,620	47	7,780	9,158	18
Kansas.....	13,504	20,237	50	10,734	12,698	18
West North Central.....	72,080	104,056	44	82,551	97,324	18
Arkansas.....	7,756	11,071	43	3,870	4,686	21
Louisiana.....	7,670	11,870	55	8,630	11,402	32
Oklahoma.....	15,370	20,852	31	13,544	18,525	37
Texas.....	40,603	57,635	42	39,844	48,987	23
West South Central.....	71,399	101,428	41	65,888	83,600	27
Montana.....	3,758	6,348	69	2,298	3,441	50
Idaho.....	2,722	5,945	118	741	1,271	72
Wyoming.....	2,194	3,449	57	751	1,064	42
Colorado.....	4,058	8,063	99	7,681	10,638	38
New Mexico.....	2,563	4,369	70	1,153	1,929	67
Arizona.....	2,010	3,806	89	1,615	2,666	65
Utah.....	1,789	3,008	68	2,915	3,879	33
Nevada.....	947	1,790	89	381	667	75
Mountain.....	20,041	36,778	84	17,535	25,555	46
Washington.....	4,830	8,922	85	11,856	14,198	20
Oregon.....	3,856	6,383	66	6,267	7,926	26
California.....	33,821	41,242	22	64,247	74,879	17
Pacific.....	42,507	56,547	33	82,370	97,003	18
Total U. S.....	602,338	833,163	38	891,509	1,055,394	18

*Decrease

95% of Cars Sell for Less Than \$750 Wholesale



Factory Sales by Wholesale Price Classes United States and Canada

	Under \$500	\$501- 750	\$751- 1000	\$1001- 1500	\$1501- 2000	\$2001- 3000	Over \$3000	Total
1925.....	2,019,708	660,520	545,981	462,243	103,119	54,814	24,359	3,870,744
Percent.....	52.2	17.1	14.1	12.0	2.6	1.4	.6	100%
1926.....	1,633,775	1,149,301	500,508	476,675	94,915	73,738	19,931	3,948,843
Percent.....	41.4	29.1	12.7	12.1	2.4	1.8	.5	100%
1927.....	1,039,216	957,987	446,663	466,902	107,425	50,064	15,103	3,083,360
Percent.....	33.7	31.1	14.5	15.2	3.5	1.6	.4	100%
1928.....	1,698,603	1,219,266	462,452	456,117	108,448	55,304	11,968	4,012,153
Percent.....	42.3	30.4	11.5	11.4	2.7	1.4	.3	100%
1929.....	2,585,414	1,317,116	387,835	347,340	98,086	47,587	11,520	4,794,898
Percent.....	53.9	27.5	8.1	7.3	2.0	1.0	.2	100%
1930.....	1,754,747	680,352	204,450	179,180	55,351	27,266	8,841	2,910,187
Percent.....	60.3	23.4	7.1	6.2	1.9	.9	.2	100%
1931.....	1,328,294	413,929	162,954	80,687	33,846	12,714	5,759	2,038,183
Percent.....	65.2	20.3	8.0	3.9	1.7	.6	.3	100%
1932.....	794,164	260,831	74,610	36,670	8,699	8,679	2,532	1,186,185
Percent.....	67.0	22.0	6.3	3.1	.7	.7	.2	100%
1933.....	1,316,748	237,099	32,610	20,125	10,409	8,725	2,052	1,627,768
Percent.....	80.9	14.6	2.0	1.25	.65	.5	.1	100%
1934.....	1,470,032	689,314	66,223	27,576	8,391	6,879	2,151	2,270,566
Percent.....	64.7	30.4	2.9	1.2	.4	.3	.1	100%

Passenger Car Production by Body Types

United States and Canada						
	1932		1933		1934	
	Number	Percent	Number	Percent	Number	Percent
Roadster.....	36,104	3.04	11,952	.73	13,013	.57
Touring.....	11,349	.96	10,418	.65	14,679	.65
Convertible Coupe.....	33,293	2.81	21,185	1.30	35,885	1.58
Convertible Sedan.....	8,810	.74	1,638	.10	3,020	.13
Coupe.....	257,404	21.70	325,330	19.99	361,800	15.93
2-Door Sedan.....	362,660	30.57	533,905	32.80	830,593	36.58
4-Door Sedan.....	442,168	37.27	686,621	42.20	962,191	42.38
All other closed cars.....	17,159	1.45	23,002	1.41	5,902	.26
Chassis.....	17,262	1.46	13,310	.82	43,483	1.92
Total.....	1,186,209	100%	1,627,361	100%	2,270,566	100%

Number and Percentage of Closed Cars, 1919-1934

United States and Canada							
Year	Open	Closed	% Closed	Year	Open	Closed	% Closed
1919*	1,496,652	161,000	10.3%	1927...	466,238	2,617,122	84.9%
1920*	1,581,610	323,950	17.0%	1928...	460,128	3,552,030	88.5%
1921...	1,182,576	335,485	22.1%	1929...	510,409	4,284,489	89.4%
1922...	1,654,909	714,180	30.0%	1930...	282,729	2,627,458	90.4%
1923...	2,477,635	1,276,310	34.0%	1931...	144,270	1,893,913	92.9%
1924...	1,883,280	1,420,366	43.0%	1932...	47,453	1,138,756	96.0%
1925...	1,684,106	2,186,638	56.5%	1933...	22,370	1,604,991	98.5%
1926...	1,105,505	2,843,338	72.0%	1934...	27,692	2,242,874	98.8%

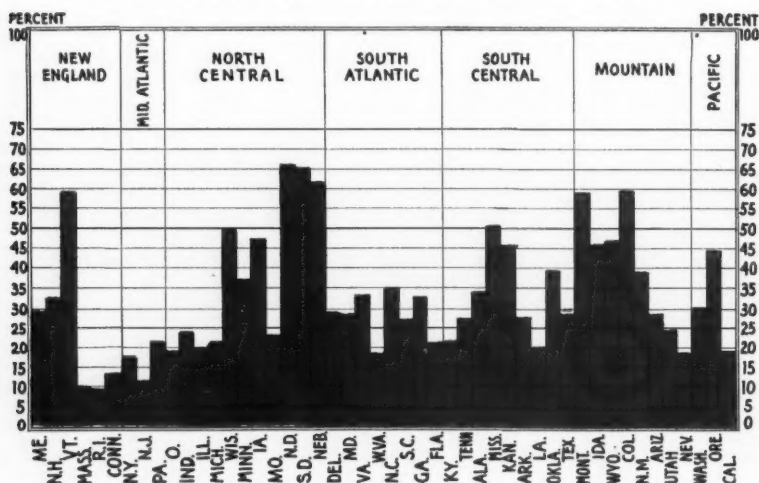
*United States only.

Number and Wholesale Value of Canadian Production, 1921-1934

(Figures from Annual Report of Dominion Bureau of Statistics, Ottawa, Canada)

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Value	Number	Value	Number	Value
1921....	61,098	\$53,561,415	5,148	\$3,843,288	66,246	\$57,404,703
1922....	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923....	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924....	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925....	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926....	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927....	146,421	100,962,211	32,633	14,942,017	179,054	115,904,228
1928....	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929....	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930....	121,337	75,253,581	32,035	16,513,225	153,372	91,766,806
1931...	65,072	42,634,173	17,487	10,330,763	82,559	52,964,936
1932...	50,694	32,490,829	10,095	6,070,667	60,789	38,560,796
1933...	53,849	32,568,268	12,003	6,062,195	65,852	38,630,463
1934...	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474

Farmers Use 26% of All Trucks



Truck Production by Capacities

UNITED STATES AND CANADA

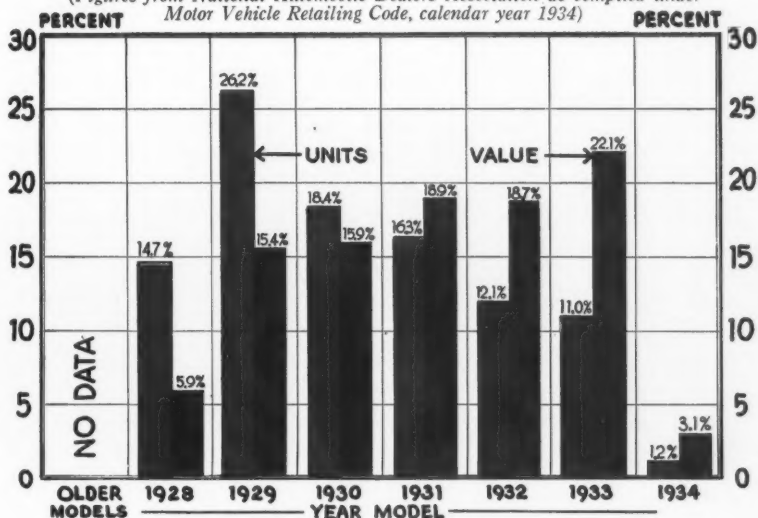
	1928	1929	1930	1931	1932	1933	1934
¾ ton or less.....	95,232	141,859	144,869	109,220	79,127	99,028	172,089
1 ton and less than 1½	313,270	78,786	31,028	4,899	1,618	893	2,341
1½ ton and less than 2	112,171	523,691	370,541	289,418	144,113	228,238	376,475
2 ton and less than 2½	30,456	28,416	16,477	8,516	7,620	15,866	25,995
2½ ton, less than 3½	21,813	33,530	22,887	11,516	6,006	7,728	11,136
3½ ton and less than 5	4,746	8,643	6,412	4,532	2,689	2,859	4,752
5 ton.....	2,219	2,384	1,094	906	1,407	580	1,219
Over 5 ton & spec'l types	9,076	9,508	6,683	5,169	2,705	3,356	5,390
Total.....	588,983	826,817	599,991	434,176	245,285	358,548	599,397

Truck Production by Capacities—Per Cent

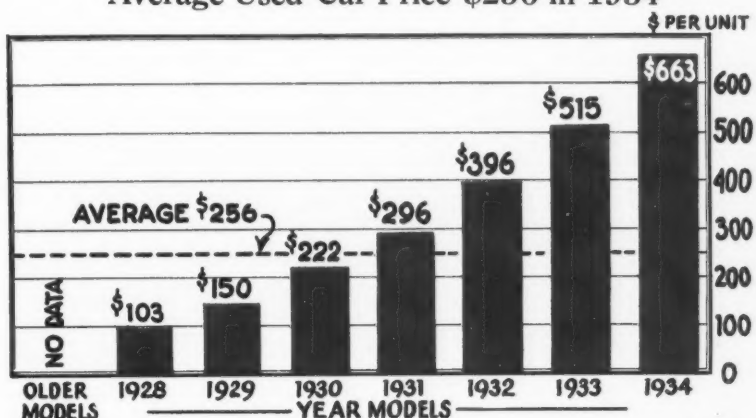
	1928	1929	1930	1931	1932	1933	1934
¾ ton or less.....	16.2	17.1	24.0	25.2	32.3	27.6	28.6
1 ton and less than 1½	53.2	9.5	5.2	1.1	.6	.2	.4
1½ ton and less than 2	19.0	63.4	61.7	66.6	58.8	63.7	62.9
2 ton and less than 2½	5.2	3.4	2.7	2.0	3.1	4.4	4.3
2½ ton and less than 3½	3.7	4.1	3.8	2.7	2.4	2.2	1.9
3½ ton and less than 5	.8	1.0	1.0	1.0	1.1	.8	.8
5 ton.....	.4	.3	.2	.2	.6	.2	.2
Over 5 ton & spec'l types	1.5	1.2	1.4	1.2	1.1	.9	.9
Total.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

26% of 1934 Used Car Sales Were 1929 Models

(Figures from National Automobile Dealers Association as compiled under Motor Vehicle Retailing Code, calendar year 1934)

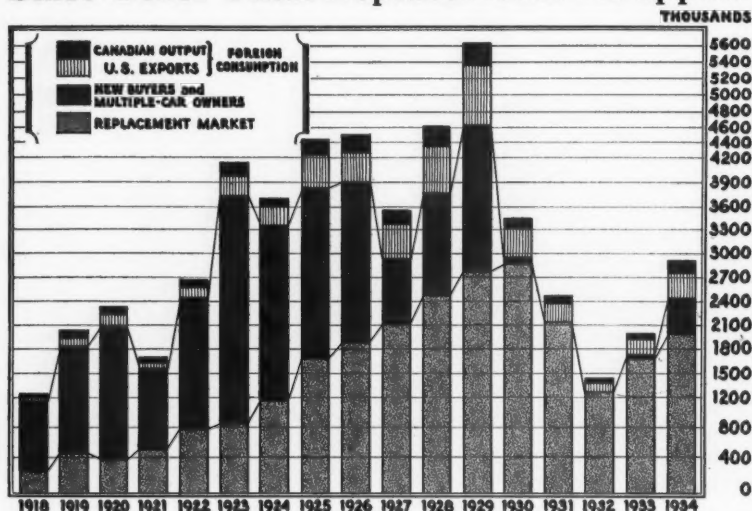


Average Used Car Price \$256 in 1934



Year Model	Number	Value	Average Sales Price	Year Model	Number	Value	Average Sales Price
1927 and older models were not reported				1932...	138,284	\$54,820,859	\$396.44
1928...	168,307	\$17,398,341	\$103.37	1933...	126,132	64,967,045	515.07
1929...	299,949	45,037,402	150.15	1934...	13,824	9,168,268	663.21
1930...	210,704	46,734,730	221.80				
1931...	186,734	55,302,892	296.16				
				Total	1,143,934	\$293,429,537	\$256.51

Sales Other Than Replacements Re-appear



Automobile Markets

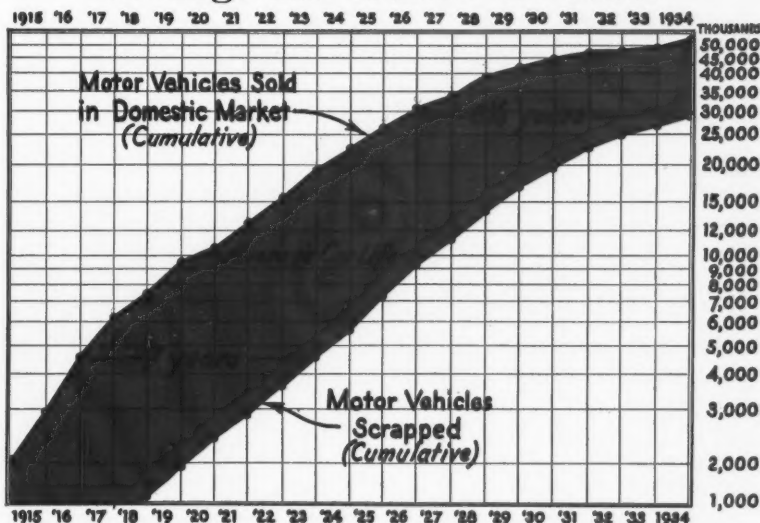
(Figures include all Motor Vehicles)

Year	Production U. S. and Canada	FOREIGN MARKET			DOMESTIC MARKET		
		Canadian Output	U. S. Exports†	Total Foreign	New Owners*	Replace- ments	Total Domestic
1918...	1,253,094	82,408	47,244	129,652	927,247	196,195	1,123,442
1919...	2,021,430	87,835	82,730	170,565	1,442,455	408,410	1,850,865
1920...	2,321,493	94,144	177,111	271,255	1,696,299	353,939	2,050,238
1921...	1,682,365	66,246	63,619	129,865	1,069,771	482,829	1,552,500
1922...	2,646,229	102,053	130,899	232,952	1,618,321	794,956	2,413,277
1923...	4,180,450	146,438	235,183	381,621	2,921,686	877,143	3,798,829
1924...	3,737,786	135,246	293,149	428,395	2,158,010	1,151,381	3,309,391
1925...	4,427,800	161,970	428,687	590,657	2,166,806	1,670,337	3,837,143
1926...	4,505,661	204,727	393,444	598,171	2,083,260	1,824,230	3,907,490
1927...	3,580,380	179,054	469,468	648,522	821,644	2,110,214	2,931,858
1928...	4,601,141	242,382	582,764	825,146	1,259,127	2,516,868	3,775,995
1929...	5,621,715	263,295	734,211	997,506	1,851,371	2,772,838	4,624,209
1930...	3,510,178	154,192	405,715	559,907	66,043	2,884,228	2,950,271
1931...	2,472,359	82,621	241,557	324,178	0	2,148,181	2,148,181
1932...	1,431,467	60,789	120,239	181,028		1,250,439	1,250,439
1933...	1,985,909	65,852	176,583	242,435	59,817	1,683,956	1,743,773
1934...	2,869,963	116,852	310,522	427,374	442,589	2,000,000	2,442,589

†Slight difference between export and domestic market figures in this table and those in table on replacements on page 15 is due to imports.

*Number of new motor vehicles sold in excess of number of old vehicles estimated to have been scrapped that is, net additions to total vehicles in use during the year.

Average Life of Cars 8¼ Years



2,000,000 Motor Vehicles Scrapped in 1934

Year	U. S. Production	U. S. Net Exports	U. S. Domestic Market	U. S. Registration	Unadjusted Scrapped	Total Scrapped or Replacements
1920.....	2,227,349	176,185	2,051,164	9,231,941	384,669	353,939
1921.....	1,616,119	60,135	1,555,984	10,464,715	323,210	482,829
1922.....	2,544,176	126,589	2,417,587	12,239,853	642,449	794,956
1923.....	4,034,012	234,224	3,799,788	15,092,177	947,464	877,143
1924.....	3,602,540	292,522	3,310,018	17,595,373	806,822	1,151,381
1925.....	4,265,830	427,989	3,837,841	19,937,274	1,495,940	1,670,337
1926.....	4,300,934	392,080	3,908,854	22,001,393	1,844,735	1,824,230
1927.....	3,401,326	465,749	2,935,577	23,133,243	1,803,727	2,110,214
1928.....	4,358,748	582,165	3,776,583	24,493,124	2,416,702	2,516,868
1929.....	5,358,420	733,066	4,625,354	26,501,443	2,617,035	2,772,838
1930.....	3,355,986	405,006	2,950,980	26,545,281	2,907,142	*2,884,228
1931.....	2,389,738	240,821	2,148,917	25,832,884	2,861,314	*2,915,024
1932.....	1,370,678	119,699	1,250,979	24,115,129	2,968,734	*2,492,140
1933.....	1,920,057	176,049	1,744,008	23,843,591	2,015,546	*1,683,956
1934.....	2,753,111	310,933	2,442,178	24,933,403	1,352,366	**2,000,000

*Some of these motor vehicles may not have been actually scrapped but kept in storage and in 1934 again registered. **Estimated.

Sample computation of replacements for 1926: Add 1926 cars going into the domestic market, 3,908,854, to the 1925 registration of 19,937,274. Subtract from this sum the 1926 registration of 22,001,393 leaving 1,844,735. This is called the unadjusted figure for replacements.

Due to the fact that in about one-half of the states the law permits the transfer of the license on the scrapped car to the same registrant's new car and in the remaining states the license is discarded with the old car, and due to other owners' practices as well, it has been assumed that one-half of the cars represented by the "unadjusted" figure (1,844,735) were scrapped in that same year (1926) and the other half scrapped in the preceding year (1925).

By adding half of the "unadjusted" figure for 1927 to half of 1926 "unadjusted" figure, a total of 1,824,230 is obtained as representing the 1926 replacements.

Motor Vehicle Registrations, 1895-1934

(Figures as of December 31st)

Years	PASSENGER CARS		MOTOR TRUCKS		TOTAL MOTOR VEHICLES	
	Number	% In-crease	Number	% In-crease	Number	% In-crease
1895.....	4	....	.....	....	4	....
1896.....	16	....	.....	....	16	....
1897.....	90	....	.....	....	90	....
1898.....	800	....	.....	....	800	....
1899.....	3,200	....	.....	....	3,200	....
1900.....	8,000	....	.....	....	8,000	....
1901.....	14,800	85%	.....	....	14,800	85%
1902.....	23,000	55%	.....	....	23,000	55%
1903.....	32,920	43%	.....	....	32,920	43%
1904.....	54,590	66%	410	....	55,000	67%
1905.....	77,400	42%	600	46%	78,000	42%
1906.....	105,900	37%	1,100	83%	107,000	37%
1907.....	140,300	33%	1,700	55%	142,000	33%
1908.....	194,400	38%	3,100	82%	197,500	39%
1909.....	305,950	57%	6,050	95%	312,000	58%
1910.....	458,500	50%	10,000	65%	468,500	50%
1911.....	619,500	35%	20,000	100%	639,500	36%
1912.....	902,600	46%	41,400	107%	944,000	48%
1913.....	1,194,262	32%	63,800	54%	1,258,062	33%
1914.....	1,625,739	36%	85,600	34%	1,711,339	36%
1915.....	2,309,666	42%	136,000	59%	2,445,666	43%
1916.....	3,297,996	43%	215,000	58%	3,512,996	44%
1917.....	4,657,340	42%	326,000	52%	4,983,340	42%
1918.....	5,621,617	21%	525,000	61%	6,146,617	23%
1919.....	6,771,074	21%	794,372	51%	7,565,446	23%
1920.....	8,225,859	22%	1,006,082	27%	9,231,941	22%
1921.....	9,346,195	14%	1,117,100	11%	10,463,295	13%
1922.....	10,862,650	16%	1,375,725	23%	12,238,375	17%
1923.....	13,479,608	24%	1,612,569	17%	15,092,177	23%
1924.....	15,460,649	15%	2,134,724	32%	17,595,373	17%
1925.....	17,496,420	13%	2,440,854	14%	19,937,274	13%
1926.....	19,237,171	10%	2,764,222	13%	22,001,393	10%
1927.....	20,219,224	5%	2,914,019	5%	23,133,243	5%
1928.....	21,379,125	6%	3,113,999	7%	24,493,124	6%
1929.....	23,121,589	8%	3,379,854	8%	26,501,443	8%
1930.....	23,059,262	-1/4%	3,486,019	3%	26,545,281	.16%
1931.....	22,366,313	-3%	3,466,571	-.6%	25,832,884	-2.5%
1932.....	20,885,814	-6.6%	3,229,315	-7%	24,115,129	-6.7%
1933.....	20,616,234	-1.2%	3,227,357	-.06%	23,843,591	-1.12%
1934.....	21,524,068	4.1%	3,409,335	5.5%	24,933,403	+4.6%

Tax-Exempt Official Cars Not Included in the Official Registrations¹

Year	U. S. Cars† State and Local	Total	Year	U. S. Cars† State and Local	Total
1929...	33,179 118,828	152,007	1932...	36,475 143,666	180,141
1930...	33,179 140,440	173,619	1933...	36,475 177,370	213,845
1931...	*29,154 143,096	172,250	1934...	36,475 193,211	229,686

*From Government reports 1932.

†U. S. Budget Bureau figures.

¹Some states require government-owned vehicles to pay registration fees same as privately-owned vehicles. In such states the government-owned vehicles are included among the regular registrations in above table.

Standing of States in Registrations, 1934

MOTOR VEHICLE REGISTRATION	NUMERICAL INCREASE FROM 1933	PERCENT INCREASE FROM 1933	POPULATION PER MOTOR VEHICLE
1 N. Y..... 2,269,355	1 Tex..... 110,390	1 S. C..... 24.6	1 Nev..... 2.92
2 Calif..... 2,006,255	2 Mich..... 71,744	2 Wyo..... 23.6	2 Calif..... 3.02
3 Pa..... 1,681,202	3 Ohio..... 58,951	3 Fla..... 20.0	3 D. of C..... 3.05
4 Ohio..... 1,613,265	4 N. C..... 57,043	4 Mont..... 16.4	4 Neb..... 3.43
5 Ill..... 1,456,241	5 Fla..... 55,940	5 N. C..... 14.9	5 Kan..... 3.60
6 Tex..... 1,312,152	6 Ga..... 46,846	6 Ore..... 14.5	6 Wyo..... 3.55
7 Mich..... 1,148,953	7 Pa..... 46,183	7 Ga..... 14.2	7 Ore..... 3.61
8 N. J..... 864,641	8 Conn..... 43,036	8 Nev..... 13.8	8 Iowa..... 3.72
9 Ind..... 803,271	9 Mo..... 41,451	9 Conn..... 13.7	9 Minn..... 3.72
10 Mass..... 785,392	10 S. C..... 40,099	10 Idaho..... 13.1	10 Wash..... 3.81
11 Mo..... 739,813	11 Wis..... 38,562	11 Ky..... 12.8	11 Col..... 3.84
12 Wis..... 709,359	12 Ky..... 37,630	12 Ala..... 9.3	12 Ind..... 4.11
13 Minn..... 697,672	13 Ore..... 34,707	13 Tex..... 9.2	13 Idaho..... 4.12
14 Iowa..... 666,440	14 Calif..... 34,326	14 D. of C..... 8.9	14 S. D..... 4.13
15 Kan..... 528,664	15 Iowa..... 34,148	15 N. M..... 8.2	15 N. H..... 4.15
16 Okla..... 477,292	16 Ind..... 33,200	16 Ariz..... 7.9	16 Mont..... 4.19
17 N. C..... 439,351	17 N. Y..... 28,598	17 Tenn..... 7.7	17 Wis..... 4.24
18 Wash..... 422,238	18 Va..... 26,025	18 Va..... 7.5	18 Ohio..... 4.24
19 Nebr..... 406,632	19 Okla..... 25,580	19 Mich..... 6.7	19 N. D..... 4.41
20 Ga..... 376,993	20 Tenn..... 24,133	20 Me..... 6.4	20 Mich..... 4.43
21 Va..... 373,908	21 Md..... 19,618	21 Md..... 6.3	21 Del..... 4.46
22 Conn..... 357,787	22 Ala..... 19,371	22 Miss..... 6.2	22 Me..... 4.48
23 Tenn..... 336,313	23 N. J..... 18,907	23 Del..... 6.1	23 Conn..... 4.62
24 Fla..... 335,205	24 Minn..... 18,429	24 Mo..... 5.9	24 Vt..... 4.63
25 Md..... 332,892	25 Mont..... 18,091	25 Vt..... 5.9	25 Tex..... 4.63
26 Ky..... 332,177	26 Neb..... 15,981	26 Wis..... 5.7	26 Fla..... 4.70
27 Colo..... 274,231	27 D. of C..... 13,280	27 Okla..... 5.7	27 Ariz..... 4.73
28 Ore..... 274,117	28 Idaho..... 12,608	28 Iowa..... 5.4	28 N. J..... 4.89
29 La..... 244,007	29 Wyo..... 12,430	29 Ark..... 5.2	29 R. I..... 4.95
30 Ala..... 225,732	30 La..... 11,319	30 N. H..... 5.1	30 Mo..... 4.97
31 S. C..... 202,834	31 Me..... 10,822	31 La..... 4.9	31 Md..... 5.02
32 Ark..... 198,091	32 Kan..... 10,677	32 R. I..... 4.5	32 Utah..... 5.10
33 W. Va.*..... 194,231	33 Miss..... 10,246	33 Ind..... 4.3	33 Okla..... 5.19
34 Me..... 178,965	34 Ark..... 9,849	34 Neb..... 4.1	34 N. M..... 5.27
35 Miss..... 174,934	35 Colo..... 7,740	35 Ohio..... 3.8	35 Ill..... 5.41
36 S. D..... 169,975	36 Ariz..... 7,090	36 Colo..... 2.9	36 Mass..... 5.52
37 D. of C..... 163,070	37 N. M..... 6,257	37 Pa..... 2.8	37 N. Y..... 5.71
38 N. D..... 156,203	38 R. I..... 6,133	38 Minn..... 2.7	38 Pa..... 5.84
39 R. I..... 142,394	39 N. H..... 5,503	39 N. J..... 2.2	39 Va..... 6.54
40 Mont..... 128,336	40 Vt..... 4,345	40 Kan..... 2.1	40 N. C..... 7.45
41 N. H..... 113,134	41 Nev..... 3,906	41 Calif..... 1.7	41 Ga..... 7.72
42 Idaho..... 108,863	42 Del..... 3,141	42 Utah..... 1.6	42 Tenn..... 7.96
43 Utah..... 101,926	43 N. D..... 2,314	43 N. D..... 1.5	43 Ky..... 8.00
44 Ariz..... 96,586	44 N. Y..... 1,564	44 N. Y..... 1.3	44 S. C..... 8.63
45 N. M..... 82,900	45 S. D..... 726	45 S. D..... .4	45 La..... 8.88
46 Vt..... 77,921	46 Mass..... -4,396	46 Ill..... -0.5	46 W. Va.*..... 9.20
47 Wyo..... 64,990	47 Wash..... -5,168	47 Mass..... -0.6	47 Ark..... 9.47
48 Del..... 54,240	48 Ill..... -6,809	48 Wash..... -1.2	48 Mis..... 11.76
49 Nev..... 32,230	49 W. Va.*..... -32,754	49 W. Va.*..... —	49 Ala..... 12.01
Total..... 24,933,403	Total..... 1,089,812	Total..... 4.6	Total per M. V. 5.07
			Per pass. car 5.87

*6 mos. ending June 30, 1934. Registration date changed from Dec. 31.

Passenger Car

Registrations by States—1929-1934

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1929	1930	1931	1932	1933	1934
Alabama.....	247,701	239,170	212,493	194,271	176,523	191,631
Arizona.....	98,327	98,480	92,939	80,248	74,927	79,795
Arkansas.....	193,396	193,218	149,456	113,594	155,262	162,391
California.....	1,760,308	1,810,969	1,798,068	1,740,755	1,751,842	1,768,699
Colorado.....	274,988	276,847	276,376	255,854	239,058	246,373
Connecticut....	278,057	279,830	302,594	270,192	262,187	301,909
Delaware.....	44,728	45,533	*45,211	*43,675	*42,614	*44,846
Dist. of Columbia	135,455	139,733	155,334	142,890	149,790	145,807
Florida.....	288,684	274,705	271,536	248,066	234,246	279,846
Georgia.....	310,362	294,461	274,576	245,666	278,935	316,731
Idaho.....	104,398	104,526	96,228	82,009	81,371	91,002
Illinois.....	*1,411,753	1,430,676	1,411,261	1,311,327	*1,276,864	*1,281,976
Indiana.....	741,366	747,366	732,846	675,107	653,710	680,480
Iowa.....	714,919	706,196	670,024	608,023	562,802	591,090
Kansas.....	*507,529	*511,384	*478,692	*433,006	*445,583	453,099
Kentucky.....	298,716	295,161	292,357	259,688	262,436	294,732
Louisiana.....	234,555	230,586	215,267	197,024	190,681	199,228
Maine.....	147,962	148,722	149,467	135,221	132,902	141,302
Maryland.....	‡281,034	283,870	289,292	280,579	278,546	287,541
Massachusetts..	719,436	743,288	736,302	698,358	689,934	686,884
Michigan.....	*1,219,158	*1,161,051	*1,078,345	*1,012,951	*955,570	*1,025,548
Minnesota.....	630,703	624,902	611,966	581,303	580,113	593,790
Mississippi.....	217,362	203,443	*152,929	*128,577	131,764	140,819
Missouri.....	*671,237	*670,145	*656,830	*618,195	*594,567	632,104
Montana.....	115,285	109,549	*103,129	*88,682	*82,765	*97,249
Nebraska.....	375,946	367,587	356,283	322,555	336,704	350,072
Nevada.....	25,302	23,388	25,218	24,851	22,397	25,839
New Hampshire..	94,900	93,155	92,839	87,837	87,759	90,752
New Jersey.....	698,959	719,696	736,506	726,178	723,506	741,290
New Mexico.....	76,000	‡70,450	65,441	61,852	61,353	66,788
New York.....	1,922,068	1,966,981	1,966,436	1,935,744	1,942,249	1,970,976
North Carolina..	430,651	397,133	374,162	326,064	332,648	384,585
North Dakota...	162,082	155,383	144,705	129,642	*128,547	129,888
Ohio.....	1,560,182	1,555,093	*1,518,696	1,421,830	*1,396,125	*1,453,420
Oklahoma.....	510,401	490,947	428,140	370,760	385,755	403,364
Oregon.....	247,131	251,188	255,275	224,285	207,202	232,706
Pennsylvania...	1,515,875	1,534,834	1,522,130	1,449,084	1,415,522	1,466,186
Rhode Island...	114,010	116,792	118,313	114,992	118,296	124,062
South Carolina..	205,683	192,141	180,280	156,648	144,940	181,957
South Dakota...	*181,419	180,195	169,509	142,554	146,485	146,143
Tennessee.....	*329,697	330,436	316,544	267,279	278,332	298,558
Texas.....	1,165,150	1,159,139	1,086,310	1,005,981	1,013,086	1,085,876
Utah.....	95,661	96,128	91,381	81,138	84,014	84,823
Vermont.....	84,471	78,398	75,424	69,166	65,652	69,309
Virginia.....	328,525	318,582	322,594	314,168	290,617	316,640
Washington.....	379,995	382,874	360,796	381,488	364,858	357,917
West Virginia...	228,715	225,900	213,949	192,221	193,570	166,978
Wisconsin.....	689,447	677,452	640,476	587,906	566,450	589,179
Wyoming.....	51,880	51,579	51,388	46,330	41,917	51,888
Totals.....	23,121,589	23,059,262	22,366,313	20,885,814	20,616,234	21,524,068

‡. See footnote under trucks.

*Buses not included.

Motor Truck

Registrations by States—1929-1934

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1929	1930	1931	1932	1933	1934
Alabama.....	37,832	37,976	33,972	31,575	29,838	34,101
Arizona.....	10,686	12,045	12,633	14,687	14,569	16,791
Arkansas.....	39,732	26,988	31,275	22,989	32,980	35,700
California.....	214,033	230,387	245,213	234,177	220,087	237,556
Colorado.....	28,501	31,662	32,082	30,357	27,433	27,858
Connecticut....	50,006	51,196	52,227	51,388	52,564	55,878
Delaware.....	10,232	10,576	*9,991	*8,666	*8,485	*9,394
Dist. of Columbia	15,995	16,943	18,185	18,286	16,742	17,263
Florida.....	57,293	53,096	51,724	37,955	45,019	55,359
Georgia.....	48,543	47,119	46,264	42,050	51,212	27,858
Idaho.....	13,676	14,551	15,435	14,030	14,884	17,861
Illinois.....	*203,335	207,584	201,509	177,820	*186,186	*174,265
Indiana.....	125,349	128,397	129,826	122,019	116,361	122,791
Iowa.....	69,531	72,190	78,414	74,882	69,490	75,350
Kansas.....	*73,694	*83,139	*80,484	*71,778	*72,404	75,565
Kentucky.....	34,132	35,841	34,969	31,621	32,111	37,445
Louisiana.....	46,303	44,697	47,783	41,853	42,007	44,779
Maine.....	36,544	37,435	38,771	36,203	35,271	37,693
Maryland.....	138,839	37,832	36,080	41,527	34,728	45,351
Massachusetts...	98,268	102,918	103,888	102,959	99,854	98,508
Michigan.....	*175,944	*167,158	*152,635	123,273	*121,639	*123,405
Minnesota.....	99,696	108,070	108,435	101,650	99,130	103,882
Mississippi.....	32,649	33,651	*30,721	*25,164	32,924	34,115
Missouri.....	*85,443	*91,455	*95,975	*99,265	*103,795	107,709
Montana.....	25,102	25,619	*24,037	*20,521	*27,480	*31,087
Nebraska.....	42,280	58,642	59,848	52,294	53,947	56,560
Nevada.....	6,613	6,257	6,950	6,527	5,927	6,391
New Hampshire...	13,980	19,028	18,671	17,378	19,872	22,382
New Jersey.....	133,373	133,154	133,361	128,604	122,228	123,351
New Mexico....	2,374	113,700	15,884	15,020	15,290	16,112
New York.....	341,191	340,749	330,813	313,765	298,508	298,379
North Carolina..	52,951	56,108	54,575	50,262	49,660	54,766
North Dakota...	25,954	27,636	26,588	23,590	*25,342	26,315
Ohio.....	206,432	204,270	*191,929	167,492	*158,189	*159,845
Oklahoma.....	60,390	59,384	54,585	44,884	65,957	73,928
Oregon.....	21,876	22,437	22,950	34,477	132,208	41,411
Pennsylvania...	217,408	218,687	219,812	216,334	219,497	215,016
Rhode Island...	19,999	19,631	19,565	18,416	17,965	18,332
South Carolina...	25,591	26,261	23,439	19,722	17,795	20,877
South Dakota...	*22,780	24,977	23,516	19,542	22,764	23,832
Tennessee.....	*32,734	37,823	33,976	31,434	33,848	37,755
Texas.....	182,957	206,757	210,991	191,462	188,676	226,276
Utah.....	17,000	17,869	17,577	16,086	16,348	17,103
Vermont.....	8,559	8,226	8,453	8,309	7,924	8,612
Virginia.....	58,680	57,307	56,633	62,344	57,226	57,268
Washington.....	62,346	63,188	60,082	63,826	62,548	64,321
West Virginia...	40,173	40,373	39,359	32,916	33,415	27,253
Wisconsin.....	104,055	105,110	113,773	108,047	104,347	120,180
Wyoming.....	8,800	9,922	10,713	9,879	10,643	13,102
Totals.....	3,379,854	3,486,019	3,466,571	3,229,315	3,227,357	3,409,335

†Big increase due largely to reclassification of trucks which previously had been classed as passenger cars.

‡In 1928, 27,089 commercial cars with pneumatic tires were included under passenger cars, practically all of which were classed as trucks in 1929. † Includes 11,700 light delivery cars.

*Includes Buses; other States include buses with passenger cars.

Total Motor Vehicle Registrations by States—1929-1934

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1929	1930	1931	1932	1933	1934
Alabama.....	285,533	277,146	246,465	225,846	206,361	225,732
Arizona.....	109,013	110,525	105,572	94,935	89,496	96,586
Arkansas.....	233,128	220,204	180,731	136,583	188,242	198,091
California.....	1,974,341	2,041,356	2,043,281	1,974,932	1,971,929	2,006,255
Colorado.....	303,489	308,509	308,458	286,211	266,491	274,231
Connecticut....	328,063	331,026	354,821	321,580	314,751	357,787
Delaware.....	54,960	56,109	55,202	52,341	51,099	54,240
Dist. of Columbia	151,450	156,676	173,519	161,176	149,790	163,070
Florida.....	345,977	327,801	323,260	286,021	279,265	335,205
Georgia.....	358,905	341,580	320,840	287,716	330,147	376,993
Idaho.....	118,074	119,077	111,663	96,039	96,255	108,863
Illinois.....	1,615,088	1,638,260	1,612,770	1,489,147	1,463,050	1,456,241
Indiana.....	866,715	875,763	862,672	797,126	770,071	803,271
Iowa.....	784,450	778,386	748,438	682,905	632,292	666,440
Kansas.....	581,223	594,523	559,176	504,784	517,987	528,664
Kentucky.....	332,848	331,002	327,326	291,309	294,547	332,177
Louisiana.....	280,868	275,283	263,050	238,877	232,688	244,007
Maine.....	184,506	186,157	188,238	171,424	168,173	178,995
Maryland.....	319,873	321,702	325,372	322,106	313,274	332,892
Massachusetts..	817,704	846,206	840,190	801,317	789,788	785,392
Michigan.....	1,395,102	1,328,209	1,230,980	1,136,224	1,077,209	1,148,953
Minnesota.....	730,399	732,972	720,401	682,953	679,243	697,672
Mississippi.....	250,011	237,094	183,650	153,741	164,688	174,934
Missouri.....	756,680	761,600	752,805	717,460	698,362	739,813
Montana.....	140,387	135,168	127,166	109,203	110,245	128,336
Nebraska.....	418,226	426,229	416,131	374,849	390,651	406,632
Nevada.....	31,915	29,645	32,168	31,378	28,324	32,230
New Hampshire..	108,880	112,183	111,510	105,215	107,631	113,134
New Jersey.....	832,332	852,850	869,867	854,782	845,734	864,641
New Mexico.....	78,374	84,150	81,325	76,872	76,643	82,900
New York.....	2,263,259	2,307,730	2,297,249	2,249,509	2,240,757	2,269,355
North Carolina..	483,602	453,241	428,737	376,326	382,308	439,351
North Dakota...	188,046	183,019	171,293	153,232	153,889	156,203
Ohio.....	1,766,614	1,759,363	1,710,625	1,589,322	1,554,314	1,613,265
Oklahoma.....	570,791	550,331	482,725	415,644	451,712	477,292
Oregon.....	269,007	273,625	278,225	258,762	239,410	274,117
Pennsylvania...	1,733,283	1,753,521	1,741,942	1,665,418	1,635,019	1,681,202
Rhode Island...	134,009	136,423	137,878	133,408	136,261	142,394
South Carolina..	231,274	218,402	203,719	176,370	162,735	202,834
South Dakota...	204,199	205,172	193,025	162,096	169,249	169,975
Tennessee.....	362,431	368,259	350,520	298,713	312,180	336,313
Texas.....	1,348,107	1,365,896	1,297,301	1,197,443	1,201,762	1,312,152
Utah.....	112,661	113,997	108,958	97,234	100,362	101,926
Vermont.....	93,030	86,624	83,877	77,475	73,576	77,921
Virginia.....	387,205	375,889	379,227	376,512	347,883	373,908
Washington.....	442,341	446,062	420,878	445,314	427,406	422,238
West Virginia...	268,888	266,273	253,308	225,137	226,985	194,231
Wisconsin.....	793,502	782,562	754,249	695,953	670,797	709,359
Wyoming.....	60,680	61,501	62,101	56,209	52,560	64,990
Totals.....	26,501,443	26,545,281	25,832,884	24,115,129	23,843,591	24,933,403

5,035,000 Motor Vehicles on Farms

(Figures from U. S. Census of Agriculture, 1930, Latest available)

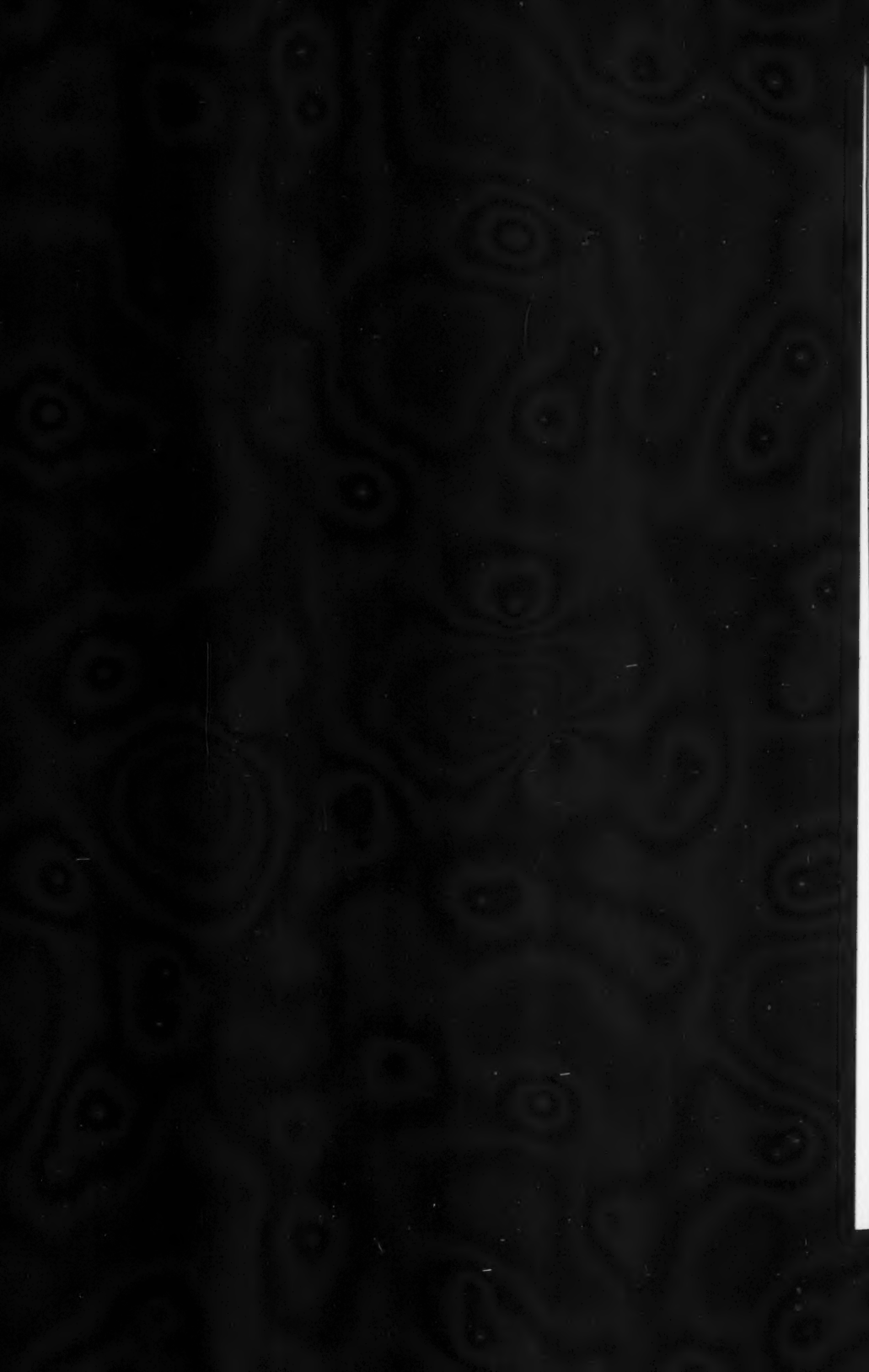
States	Motor Vehicles	Passenger Cars	Motor Trucks	% Of All Trucks On Farms	Tractors	Tele-phones	Radios
Alabama.....	86,472	73,634	12,838	33.9	4,664	19,510	4,453
Arizona.....	12,978	9,916	3,062	28.6	2,558	2,672	2,352
Arkansas.....	76,935	65,935	11,000	27.6	5,684	25,046	6,001
California.....	177,813	136,842	40,971	19.1	44,437	48,171	60,165
Colorado.....	69,176	52,258	16,918	59.3	13,334	23,877	19,188
Connecticut....	19,498	13,154	6,344	12.6	2,667	11,366	10,200
Delaware.....	11,720	8,724	2,996	29.2	1,600	2,420	3,098
D. of Col.....	141	60	81	.....	17	69	35
Florida.....	38,590	26,387	12,203	21.2	5,244	3,525	3,644
Georgia.....	104,446	88,479	15,967	32.8	5,870	14,771	5,637
Idaho.....	40,247	33,966	6,281	45.9	4,691	15,733	11,023
Illinois.....	233,244	192,873	40,371	19.8	69,628	147,672	96,250
Indiana.....	184,593	154,556	30,037	23.9	41,979	110,333	64,628
Iowa.....	273,181	240,512	32,669	46.8	66,258	180,876	114,006
Kansas.....	204,666	171,018	33,648	45.6	66,275	120,890	64,572
Kentucky.....	93,972	86,784	7,188	21.5	7,322	61,631	16,992
Louisiana.....	52,363	43,082	9,281	20.0	5,016	6,106	2,973
Maine.....	37,008	26,227	10,781	29.0	3,410	22,189	14,424
Maryland.....	49,256	37,972	11,284	29.0	7,208	11,935	12,421
Massachusetts..	27,210	17,638	9,572	9.7	3,921	16,581	15,557
Michigan.....	187,690	150,922	36,768	20.9	34,579	73,757	64,662
Minnesota.....	222,274	185,717	36,557	36.6	48,457	114,693	74,231
Mississippi.....	102,066	85,563	16,503	50.5	5,542	15,858	3,859
Missouri.....	196,598	176,466	20,132	23.7	24,999	137,712	62,863
Montana.....	52,781	38,166	14,615	58.2	19,031	9,697	16,109
Nebraska.....	167,189	141,144	26,045	61.6	40,729	93,888	65,273
Nevada.....	4,162	2,921	1,241	18.7	360	1,460	978
New Hampshire..	15,618	11,079	4,539	32.4	1,096	9,313	7,344
New Jersey.....	37,124	22,371	14,753	11.0	8,088	10,373	16,777
New Mexico.....	20,723	15,395	5,328	38.9	2,497	2,879	2,203
New York.....	200,890	141,916	58,974	17.2	40,369	78,185	85,914
North Carolina..	151,434	132,876	18,558	35.0	11,426	19,852	9,297
North Dakota...	95,788	78,798	16,990	65.4	37,605	31,878	30,692
Ohio.....	240,762	201,552	39,210	18.9	52,974	121,214	86,011
Oklahoma.....	151,378	127,448	23,930	39.6	25,962	53,149	23,611
Oregon.....	57,181	47,440	9,741	44.5	9,838	26,557	19,488
Pennsylvania.....	199,284	152,222	47,062	21.1	33,513	73,321	62,856
Rhode Island....	4,270	2,569	1,701	8.5	589	1,742	2,158
South Carolina...	68,720	61,754	6,966	27.2	3,462	6,357	3,371
South Dakota....	96,739	81,923	14,816	65.0	33,837	44,608	37,218
Tennessee.....	98,061	89,022	9,039	27.6	6,865	45,205	12,538
Texas.....	352,756	300,176	52,580	28.7	37,348	97,346	39,347
Utah.....	21,763	17,574	4,189	24.6	1,426	7,416	7,321
Vermont.....	23,655	18,620	5,035	58.8	2,426	15,093	10,689
Virginia.....	107,922	88,463	19,459	33.1	9,757	30,418	13,376
Washington.....	74,831	55,995	18,836	30.2	8,388	31,764	26,822
West Virginia...	44,410	36,978	7,432	18.4	2,792	28,117	9,075
Wisconsin.....	228,550	176,764	51,786	49.7	50,173	107,486	72,826
Wyoming.....	16,932	12,824	4,108	46.6	4,110	4,483	4,967
Total.....	5,035,060	4,134,675	900,385	26.6	920,021	2,139,194	1,399,495

12,048,762 families, or 40.3% of 29,904,663 total city and farm families in the United States have radio sets.

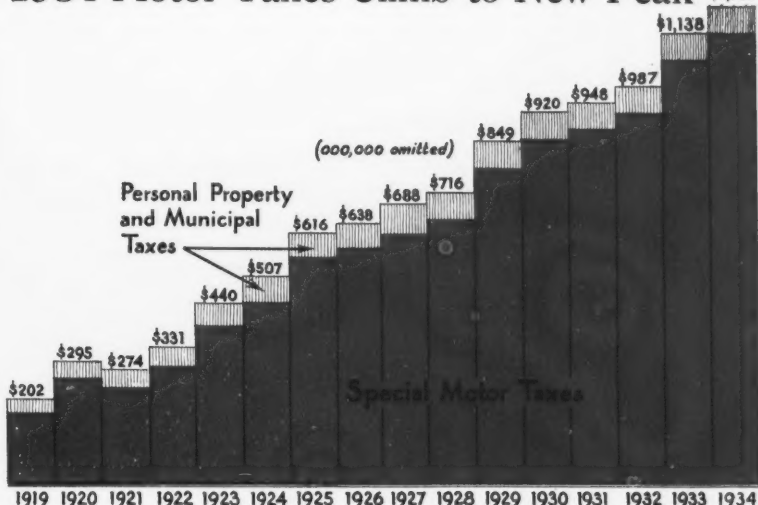
Motorists' "Tax Check"

Increased Six-fold in Fifteen Years





1934 Motor Taxes Climb to New Peak \$1,200



\$1,200,108,000 Motor Owner Taxes in 1934

	State Registration Fees	State Gasoline Tax	Federal Excise Taxes†	Personal Property City and County Taxes ‡	Total*
1919	\$ 64,697,255	\$ 1,022,514	\$101,138,191	\$35,000,000	\$202,365,681
1920	102,546,212	1,363,902	149,207,520	40,000,000	295,157,877
1921	122,478,654	5,382,111	99,967,423	45,000,000	274,604,682
1922	152,047,824	12,703,078	114,793,400	50,000,000	331,329,922
1923	188,970,992	38,566,338	155,796,944	55,000,000	440,241,674
1924	225,492,252	80,442,295	139,201,755	60,000,000	507,150,141
1925	260,619,621	148,358,087	143,430,709	62,000,000	616,273,492
1926	288,282,352	187,603,231	96,255,639	66,000,000	638,272,350
1927	301,061,132	258,838,813	60,473,708	68,000,000	688,373,653
1928	322,630,025	304,871,766	20,386,176	69,000,000	716,887,967
1929	347,843,543	431,311,519	.....	70,000,000	849,155,062
1930	355,704,860	494,683,410	.....	70,000,000	920,388,270
1931	344,337,654	536,397,458	.....	68,000,000	948,735,112
1932	324,273,510	513,047,239	81,290,193 ¹	68,382,000	986,992,942
1933	302,715,884	518,195,712	247,744,425	70,000,000	1,138,656,021
1934	312,929,000	565,027,000	252,151,729	70,000,000	1,200,107,729

These are taxes on the motor vehicle owners. Income and property taxes on motor vehicle factories, garages, dealers, repair shops, terminals and truck, taxicab and bus operating companies are not included.

*Totals include Federal tax on vehicles for hire (fiscal year): 1919—\$507,721 1920—\$2,040,243 1921—\$1,776,494 1922—\$1,785,620 1923—\$1,907,400 1924—\$2,013,839 1925—\$1,865,075 1926—\$131,128.

†Figures from Bureau of Internal Revenue: War tax removed May 29, 1928. ‡Estimated by Automobile Manufacturers Association, including bridge and tunnel tolls.

¹On sales between June 21st and December 31st, 1932.

Multiple Taxes on Motor Users

Federal Excise Taxes on Wholesale Value

Passenger cars.....	3%	Gasoline.....	1¢ a gallon
Motor trucks.....	2%	Lubricating oil.....	4¢ a gallon
Parts and accessories.....	2%	Rubber tires.....	2¼¢ a pound
		Inner tubes.....	4¢ a pound

Special State Taxes on Motor Vehicle Owners

Gasoline tax from 2 cts. to 7 cts. a gallon.	Operators' or chauffeurs' permits.
Registration fees based on one or a combination of the following measures:	Financial responsibility, or compulsory insurance.
(a) Horsepower	Gross receipts.
(b) Weight—gross or net	Ton-miles, gross, net, capacity or other.
(c) Value	Mileage.
(d) Seating capacity	Occupational tax.
(e) Tires, solid or pneumatic	Privilege tax.

Certificate of title.

General State Taxes

(1) General state sales tax in 24 states					
Arizona	Idaho	Kentucky	Missouri	North Dakota	Utah
Arkansas	Illinois	Maryland	New Jersey	Ohio	Washington
California	Indiana	Michigan	New Mexico	Oklahoma	West Virginia
Colorado	Iowa	Mississippi	North Carolina	South Dakota	Wyoming
(2) Personal property tax in 33 states.					

Special City and County Taxes on Motor Users

Municipal and county taxes on motor vehicles in the form of registration fees, wheel tax and operators' licenses are permitted in the following states:

Alabama	Delaware	Kentucky	North Carolina	Tennessee
Arizona	Georgia	Mississippi	South Carolina	Texas
Arkansas	Illinois	Missouri	Oklahoma	Virginia
California	Indiana	Nebraska	Ohio	Washington
Colorado	Iowa	Nevada	Oregon	Wyoming

Municipal and county taxes on gasoline are in effect in the following places:

	Number of Cities	Counties		Number of Cities	Counties
Alabama.....	145	6	Missouri.....	66	...
Florida.....	12	...	Nevada.....	1	...
Louisiana.....	1	59	New Mexico.....	18	...
Mississippi.....	...	3	Wyoming.....	3	...

These cities and counties are known to have special gasoline taxes but there may be additional municipalities either in these same states or in other states which have not as yet come to our attention.

Automotive Products Pay 74% of All Federal Excise Taxes

(Source: U. S. Bureau of Internal Revenue)

	1932 ¹	1933	1934
Automobiles.....	\$4,221,263	\$22,475,887	\$31,533,516
Trucks.....	720,155	3,046,826	5,261,207
Parts and Accessories.....	1,900,111	4,443,071	5,886,002
Rubber Tires and Tubes.....	7,545,071	23,836,119	24,704,077
Gasoline.....	62,839,827	181,125,988	170,109,269
Lubricating Oil*.....	4,063,766	12,816,534	14,657,658
Total automotive.....	\$81,290,193	\$247,744,425	\$252,151,729
Lubricating oil, non-automotive.....	3,003,653	9,473,091	10,185,831
Pipe lines.....	2,577,905	10,237,275	10,008,692
Total.....	\$86,871,751	\$267,454,791	\$272,346,252
All federal excise taxes.....		\$346,676,272	\$341,209,946
Percent automotive to total.....		71.4%	73.9%

¹—Federal excise taxes became effective June 21, 1932.

*Motor vehicles used 57.5% of all lubricating oil and hence paid 57.5% of lubricating oil excise taxes in 1933. In 1934 motor vehicles used 59%. Automotive share is shown in the above table.

Motorists in 24 States Pay General Retail Sales Taxes

In Addition to Federal Excise, State License and Gasoline Taxes
and Other Special Automotive Taxes

SALES TAXES					CHAIN STORE TAXES IN 18 STATES					
State	Rate		Effective Dates		Foot- notes	Min. For 1 Store \$	For Stores More Than	Maximum Amt. Per Store \$	Effective from	Foot- notes
	Retail %	Wh'le %	From	To						
Ala.....	.....	.....	.....	.....	.....	\$1.00	20	\$75	10- 1-31	1, 2
Ariz.....	1-2	¼	5- 1-35	.....	3	.....	.....	.....	.....	.....
Ark.....	2	.....	5- 1-35	1- 1-37	.....	.....	.....	.....	.....	.....
Calif.....	2	.....	8- 1-33	.....	3, 4	.....	.....	.....	.....	.....
Colo.....	2	.....	3- 1-35	6-30-37	.....	2.00	24	300	1- 1-35	1
Fla.....	.....	.....	.....	.....	.....	5.00	75	100	6-12-33	1,2,5
Idaho.....	2	.....	3-20-35	3-15-37	3	3.00	19	500	7- 1-33	1,2
Ill.....	2	.....	7- 1-33	.....	.....	.....	.....	.....	.....	.....
Ind.....	1	¼	5- 1-33	.....	6	3.00	20	150	7- 1-29	1
Iowa.....	2	.....	4- 1-34	4- 1-37	3	5.00	50	155	7- 1-35	7
Ky.....	3	.....	7- 1-34	6-30-36	3	1.00	50	150	7- 2-34	2
La.....	.....	.....	.....	.....	.....	10.00	500	550	1- 1-35	2
Me.....	.....	.....	.....	.....	.....	1.00	25	50	7- 1-33	1, 2
Md.....	1	.....	4- 1-35	3-31-36	.....	5.00	20	150	6- 1-33	2
Mich.....	3	.....	7- 1-33	.....	.....	10.00	25	250	7-17-34	2, 8
Minn.....	.....	.....	.....	.....	.....	5.00	50	155	7- 1-33	2, 8, 9
Miss.....	2	¼	5- 1-32	.....	10, 11	.....	.....	.....	.....	.....
Mo.....	¼	.....	1-15-34	12-31-35	3, 12	.....	.....	.....	.....	.....
Mont.....	.....	.....	.....	.....	.....	2.50	10	30	7- 1-33	1
N. J.....	2	.....	7- 1-35	.....	3	.....	.....	.....	.....	.....
N. M.....	2	½	6-30-35	.....	3, 13	.....	.....	.....	.....	.....
N. C.....	3	¼	7- 1-35	6-30-37	3, 14	50.00	51	150	6- 1-33	8, 15
N. D.....	2	.....	5- 1-35	5- 1-37	.....	.....	.....	.....	.....	.....
Ohio.....	3	.....	1- 1-35	12-31-35	3	.....	.....	.....	.....	.....
Okla.....	1	.....	4-23-35	7- 1-37	.....	.....	.....	.....	.....	.....
S. C.....	.....	.....	.....	.....	.....	5.00	29	150	4- 5-30	2
S. D.....	2	.....	7- 1-33	.....	16	1.00	10	10	7- 1-35	17
Utah.....	2	.....	6- 1-33	.....	3	.....	.....	.....	.....	.....
Wash.....	2	.....	5- 1-35	.....	3, 18	.....	.....	.....	.....	.....
W. Va.....	2	.....	7- 1-35	6-30-37	3, 19	2.00	75	250	3- 8-33	1
Wyo.....	2	.....	4- 1-35	3-31-37	.....	.....	.....	.....	.....	.....

¹-Filing fee 50c. ²-Filling stations Exempt. ³-Gasoline exempt. ⁴-2½% until June 30, 1935. ⁵-3 mil inventory tax. ⁶-¼% on manufacturers' sales and 1% on personal income. ⁷-Plus gross sales tax from \$25 (\$50,000 or less) to \$1000 for each \$10,000 (excess of \$9,000,000). ⁸-No fee for only one store. ⁹-Plus gross sales tax from 1/20% (\$100,000 or less) to 1% (excess of \$1,000,000). ¹⁰-1% on motor vehicles. ¹¹-¼% on manufacturers' sales. On gasoline the sales tax is figured on price less gasoline tax. ¹²-Increases to 1% Aug. 29, 1935. Motor vehicle oils as well as gasoline exempt. ¹³-½% on automobiles, ¼% on trucks, ¼ to 2% on certain manufacturers' and producers' sales. Oil refiners' sales ½%. ¹⁴-Minimum \$12.50 for 6 months on wholesale sales. Maximum \$10 on any one article retail sales. ¹⁵-Motor and gasoline business exempt. ¹⁶-Plus gross income tax, 1% on retail sales, ¼% on wholesale and manufacturers' sales and 1 to 2% on personal income. ¹⁷-Plus gross retail sales tax of ¼% (\$50,000 or less) to ¾% (excess of \$1,000,000) plus wholesale sales tax of ½%. Law expires June 30, 1937. ¹⁸-Plus general sales tax of ¼% on wholesalers' and manufacturers' sales, ½% on warehouse distribution to stores, ¼% on retailers' sales, ½% on all others. ¹⁹-Plus gross income tax from 15/100% on wholesalers and jobbers (retailers sales ¾%) to 6% on natural gas production in excess of \$5000 (oil 3%); other than specified businesses 1%. To the gross income tax is added 50% surtax to June 30, 1935 thereafter 30% surtax.

State Gasoline Tax Receipts

Exemption Refunds Have Been Excluded

(Figures from United States Bureau of Public Roads)

	1929	1930	1931	1932	1933	1934
Alabama.....	\$7,105,009	\$6,901,492	\$7,197,474	\$7,000,502	\$8,033,141	\$9,299,000
Arizona.....	2,559,831	2,670,019	3,204,288	2,900,221	2,679,032	3,028,000
Arkansas.....	6,681,029	6,427,273	6,448,049	5,164,976	5,989,429	7,864,000
California.....	34,192,087	34,870,126	39,863,637	36,128,854	35,217,162	35,960,000
Colorado.....	5,217,479	6,144,826	6,254,338	5,469,220	5,324,996	6,475,000
Connecticut....	4,047,092	4,515,063	4,727,993	4,684,588	4,811,630	4,973,000
Delaware.....	935,947	1,013,357	1,072,061	1,090,150	1,127,330	1,185,000
Dist. of Col....	1,428,181	1,599,689	1,726,295	2,035,497	2,082,346	2,063,000
Florida.....	12,203,056	13,655,175	14,986,170	14,508,777	14,249,308	16,499,000
Georgia.....	10,224,108	13,435,062	13,313,500	11,938,809	12,634,513	14,366,000
Idaho.....	1,945,980	2,730,862	2,598,366	2,277,727	2,282,370	2,871,000
Illinois.....	(1) 11,659,778	27,472,420	29,065,685	28,754,051	27,833,011	29,126,000
Indiana.....	15,610,251	17,158,834	18,034,553	16,739,561	16,283,202	17,550,000
Iowa.....	9,355,785	10,584,068	10,927,589	8,970,137	9,372,343	11,250,000
Kansas.....	8,171,205	9,120,491	8,070,885	7,420,495	7,731,819	8,516,000
Kentucky.....	7,742,564	8,414,733	8,810,130	8,202,889	8,314,659	9,218,000
Louisiana.....	6,978,651	7,546,448	9,397,783	8,300,722	8,155,436	8,923,000
Maine.....	3,708,682	4,168,890	4,382,728	4,206,702	4,080,371	4,486,000
Maryland.....	6,297,168	6,991,188	7,431,002	7,500,232	7,207,749	7,809,000
Massachusetts..	9,758,816	10,562,947	15,306,376	16,519,278	16,377,352	17,002,000
Michigan.....	21,309,009	21,713,489	21,832,347	20,431,328	19,458,458	20,978,000
Minnesota.....	8,892,125	10,359,111	11,070,159	10,000,557	10,014,857	10,845,000
Mississippi.....	7,045,120	6,917,575	5,832,264	5,650,161	5,801,725	6,888,000
Missouri.....	7,680,672	8,639,161	9,206,564	8,949,693	9,081,135	9,575,000
Montana.....	2,802,017	2,941,879	3,018,154	2,690,156	2,751,303	3,664,000
Nebraska.....	7,799,479	9,060,422	9,096,248	7,809,465	7,706,261	8,570,000
Nevada.....	652,301	675,012	727,117	727,117	695,653	894,000
New Hampshire..	2,267,052	2,499,478	2,657,143	2,638,841	2,349,849	2,746,000
New Jersey.....	9,961,276	11,380,231	17,124,632	16,617,425	16,397,386	17,034,000
New Mexico.....	2,273,966	2,761,887	2,664,704	2,192,253	2,265,510	2,557,000
New York.....	(1) 19,055,174	28,476,250	30,544,061	42,473,687	43,344,695	43,927,000
North Carolina..	12,006,384	12,533,454	14,024,303	13,903,646	14,769,602	16,482,000
North Dakota..	1,799,226	1,971,986	2,030,238	1,835,712	1,923,951	2,262,000
Ohio.....	34,082,188	37,081,451	39,328,063	34,269,179	33,939,981	37,618,000
Oklahoma.....	10,841,609	12,092,420	11,665,432	9,661,097	10,064,685	10,817,000
Oregon.....	4,542,602	6,198,777	6,186,918	5,591,175	6,343,891	7,252,000
Pennsylvania...	35,747,314	33,623,510	32,452,677	30,289,915	30,739,117	33,409,000
Rhode Island...	1,542,759	1,735,747	1,892,635	1,854,025	1,880,972	2,057,000
South Carolina..	6,866,608	7,145,711	7,245,989	6,224,927	6,679,326	7,719,000
South Dakota....	3,545,765	3,503,882	3,394,675	2,963,348	3,346,015	3,765,000
Tennessee.....	9,290,853	10,719,195	11,461,023	12,185,360	12,979,882	14,114,000
Texas.....	22,317,494	29,527,098	30,514,558	27,063,758	28,479,350	31,640,000
Utah.....	1,979,226	2,106,529	2,309,227	2,171,912	2,188,998	2,514,000
Vermont.....	1,705,091	1,879,921	1,966,544	1,874,648	1,766,152	1,942,000
Virginia.....	9,894,941	10,775,058	11,445,215	10,809,600	11,082,400	12,477,000
Washington.....	5,943,039	7,253,249	11,032,462	11,046,510	10,863,214	11,959,000
West Virginia...	4,866,192	5,367,078	5,387,217	4,941,791	4,919,664	5,696,000
Wisconsin.....	7,485,039	8,314,841	15,780,181	14,948,420	15,169,426	15,399,000
Wyoming.....	1,296,299	1,447,005	1,587,014	1,418,145	1,405,415	1,764,000
Total.....	\$431,311,519	\$494,683,410	\$536,397,458	\$513,047,239	\$518,195,712	\$565,027,000

(1) Effective August 1, 1929. (1) New York gasoline tax went into effect May 1, 1929.

Motor Vehicle Registration Receipts

(Figures from United States Bureau of Public Roads)

	1929	1930	1931	1932	1933	1934
Alabama....	\$3,736,380	\$3,799,761	\$3,379,392	\$3,038,206	\$2,724,257	\$3,251,000
Arizona....	748,565	734,626	767,508	709,069	647,816	864,000
Arkansas....	4,212,161	4,283,959	3,495,545	2,796,023	1,768,505	2,203,000
California....	10,489,068	9,858,810	9,763,274	9,391,366	9,866,449	11,517,000
Colorado....	1,835,386	1,901,230	1,910,741	1,946,983	2,035,608	2,358,000
Connecticut....	7,992,755	8,290,404	8,259,542	7,953,950	7,850,589	8,099,000
Delaware....	1,023,440	1,110,047	1,043,173	1,018,396	1,014,333	883,000
Dist. of Col..	665,914	636,001	623,460	868,086	625,508	830,000
Florida....	4,959,129	4,813,495	4,851,968	5,267,792	4,994,882	4,409,000
Georgia....	4,568,209	4,482,257	4,256,553	3,825,528	1,036,241	1,193,000
Idaho....	1,787,467	1,998,290	1,909,363	1,617,261	1,401,849	1,601,000
Illinois....	17,087,209	18,444,247	18,426,497	16,966,682	16,229,327	18,284,000
Indiana....	6,253,424	6,346,879	6,332,101	6,090,486	7,846,883	7,285,000
Iowa....	11,919,350	12,693,621	12,539,613	11,670,688	10,695,407	10,410,000
Kansas....	5,697,306	6,084,348	6,059,910	5,438,981	3,056,837	3,907,000
Kentucky....	5,381,302	5,547,069	4,842,108	4,650,638	4,174,076	3,217,000
Louisiana....	4,523,634	4,609,042	4,549,244	4,120,002	4,052,816	4,380,000
Maine....	3,030,128	3,166,642	3,184,091	2,956,638	2,909,237	3,165,000
Maryland....	3,295,314	3,437,796	3,497,807	3,450,386	3,581,251	3,523,000
Mass....	7,117,725	7,120,583	7,000,306	6,567,646	6,508,343	6,634,000
Michigan....	23,212,316	22,482,412	21,821,290	19,835,711	18,560,314	16,198,000
Minnesota....	10,846,826	11,062,150	10,784,845	10,121,697	6,366,982	6,884,000
Mississippi....	2,963,381	3,046,393	2,421,287	2,137,953	1,870,396	2,023,000
Missouri....	9,690,727	10,150,000	10,140,429	9,824,564	9,356,828	7,670,000
Montana....	1,549,487	1,583,276	1,499,492	1,294,174	1,070,104	1,082,000
Nebraska....	4,289,969	3,804,950	3,742,401	3,349,152	1,721,834	1,945,000
Nevada....	298,881	373,966	388,327	395,440	299,634	387,000
New Hamp....	2,248,213	2,290,435	2,257,459	2,104,096	2,167,421	2,482,000
New Jersey....	14,803,016	15,382,456	15,891,204	15,413,228	15,377,843	15,687,000
New Mexico....	756,763	1,279,623	1,248,097	769,869	666,748	910,000
New York....	38,293,313	40,857,715	41,877,611	41,272,035	42,318,407	41,664,000
N. Carolina....	7,045,116	6,835,743	6,164,549	5,444,356	5,356,126	7,070,000
N. Dakota....	1,989,475	1,958,662	1,799,120	1,799,973	1,382,008	1,306,000
Ohio....	12,860,453	13,287,352	12,818,705	18,424,972	17,677,551	19,961,000
Oklahoma....	6,964,360	6,536,361	5,857,107	4,789,291	3,382,455	3,861,000
Oregon....	7,644,226	9,617,930	6,940,504	6,548,171	5,337,137	5,909,000
Penn....	29,264,695	33,112,371	31,607,172	29,815,715	29,184,792	30,842,000
Rhode Island	2,403,809	2,280,849	2,272,879	2,183,509	2,198,342	2,315,000
So. Carolina....	2,674,379	2,878,352	2,790,008	2,470,470	2,503,367	2,912,000
So. Dakota....	3,150,657	2,959,913	2,808,172	2,444,290	1,459,027	1,578,000
Tennessee....	4,288,420	4,767,239	4,580,685	3,872,094	2,940,010	3,359,000
Texas....	20,418,696	13,961,362	13,994,647	13,154,999	12,747,489	14,969,000
Utah....	838,300	855,584	828,303	801,846	797,598	1,184,000
Vermont....	2,339,782	2,392,152	2,355,913	2,218,413	2,072,717	2,157,000
Virginia....	6,145,296	6,493,989	6,159,257	6,240,867	6,112,098	5,063,000
Washington....	7,547,382	7,616,676	7,623,570	2,179,547	2,482,758	2,913,000
W. Va....	4,565,836	4,702,812	4,519,763	4,064,526	3,837,922	2,017,000
Wisconsin....	11,780,703	13,083,521	11,724,995	10,281,303	9,768,006	11,085,000
Wyoming....	647,200	691,509	727,667	676,442	679,411	483,000
Total....	\$347,843,543	\$355,704,860	\$344,337,654	\$324,273,510	\$302,715,884	\$312,929,000

¹—Change of fiscal year, 18 months included.

²—10 months ending Oct. 31, 1933.

³—Year changed from June 30 to Dec. 31. Last 6 months 1933 fees \$1,843,000.

⁴—Year ended Oct. 31, 1934.

⁵—Year ended Mar. 31, 1935.

⁶—Year ending June 30, 1933.

⁷—Year ended Sept. 30, 1934.

⁸—15 months period ended Mar. 31, 1935.

⁹—6 months period ended June 30, 1934

\$312,929,000 State Motor

(Figures compiled from state authorities by the United

IN THOUSANDS OF DOLLARS

STATE	MOTOR-VEHICLE REGISTRATION FEES			REGISTRATION FEES, OTHER VEHICLES		Total Registration Fees, All Veh.
	Total Motor-Veh. Regist. Fees ¹	Pass. Cars	Total Trucks	Trailers and Semi- Trailers	Motor- Cycles	
Alabama ¹	\$3,183					\$3,183
Arizona.....	600	300	300		1	629
Arkansas.....	1,972	1,353	619	158	1	2,131
California.....	8,431	5,846	112,585	426	25	8,882
Colorado.....	1,632	1,253	379	18	1	1,651
Connecticut.....	6,292	4,759	1,533	45	9	6,346
Delaware.....	715	490	225	13	1	729
Florida.....	4,091	2,910	1,181	97	5	4,193
Georgia.....	1,129	949	180	27	3	1,159
Idaho.....	1,514	1,102	412	17	2	1,533
Illinois.....	16,359	12,388	3,971	97	16	16,472
Indiana.....	5,986	4,463	1,523	186	5	6,177
Iowa.....	9,677	7,625	2,052	52	6	9,735
Kansas.....	3,130	2,438	692	42	3	3,175
Kentucky.....	2,875	1,967	908	17.....	2	2,877
Louisiana.....	4,010	3,026	984	283	5	4,298
Maine.....	2,474	1,674	800	98	6	2,488
Maryland.....	2,807	2,269	538	69	7	2,883
Massachusetts.....	3,791	2,551	1,240	27	2	3,820
Michigan.....	13,588	9,494	4,094	607	11	14,206
Minnesota.....	6,409	4,677	1,732	172	6	6,587
Mississippi.....	\$1,926					1,926
Missouri.....	6,562	5,555	1,007	56	8	6,626
Montana.....	1,006	789	217	18.....	1	1,006
Nebraska.....	1,752	1,145	607	26	2	1,780
Nevada.....	233	129	104	4	1	238
New Hampshire.....	12,035				6	2,041
New Jersey.....	11,179	7,800	3,379	138	10	11,327
New Mexico.....	806	532	274	8	1	815
New York.....	36,891	26,818	10,073	301	49	37,241
North Carolina.....	6,793	5,327	1,466	28.....	5	6,798
North Dakota.....	1,233	942	291	3	1	1,237
Ohio.....	18,322	12,011	6,311	609	27	18,958
Oklahoma.....	2,724	1,859	865	87	4	2,815
Oregon ¹²	1,564	1,056	508	22.....	4	1,568
Pennsylvania.....	1,986	1,195	791	96	5	1,997
Rhode Island.....	22,658	15,644	7,014	185	29	22,872
South Carolina ¹⁴	1,879	1,428	451	2	3	1,884
South Dakota.....	2,510	2,062	448	50	2	2,562
Tennessee.....	1,267	1,110	157	13	15.....	1,280
Texas ¹⁵	3,292					3,292
Utah.....	14,106	9,663	4,443	309	15	14,430
Vermont.....	850	584	266	13	1	864
Virginia.....	1,849	1,365	27484	4	4	1,857
Washington.....	4,289	3,184	1,105	227	5	4,321
West Virginia ¹⁶	2,296	1,139	1,157	90	4	2,390
Wisconsin.....	1,766	1,421	345	11	2	1,779
Wyoming.....	9,743	7,340	2,403	173	12	9,928
Dist. of Col.....	411	275	136	16	31.....	427
Detailed Totals ¹⁷	169	146	23	1	1	171
Grand Totals	262,762	182,053	70,273	4,504	318	267,584

¹—No segregation of registration fees by type of vehicle was available in Alabama, Mississippi, New Hampshire, and Tennessee. In these cases the total motor-vehicle registration fees include those of trailers and motorcycles, except in the case of New Hampshire, for which the motorcycle fees are given.

²—Special taxes, such as mileage, ton-mile, and passenger-mile taxes, gross receipts taxes, franchise fees, and special license fees, imposed on motor vehicles operated for hire and other motor carriers. Gross receipts taxes paid by common carriers in California and passenger-mile taxes paid by interurban common-carrier busses in Maryland are included with registration fees and omitted from this column, as these taxes were paid in lieu of registration fees. ³—Total including special taxes paid by motor carriers.

⁴—For registration year ended September 30, 1934.

⁵—Includes gross receipts taxes of \$579,000 paid in lieu of registration fees by common carriers, both freight and passenger. ¹¹—Includes registration fees paid by contract carriers of passengers; gross receipts taxes paid by common freight carriers included with passenger-vehicle fees.

¹²—Includes \$305,000 paid in \$1 assessments on motor-vehicle registrations for old age pension fund.

¹³—No special taxes on motor carriers. ¹⁴—Not reported.

¹⁵—Includes \$180,000 in service charges on registrations in branch offices, not segregated by type of vehicle.

Vehicle Registration Fees, 1934

States Bureau of Public Roads, calendar year except as noted)

IN THOUSANDS OF DOLLARS

MISCELLANEOUS RECEIPTS						Special Taxes Paid by Motor Carriers ¹⁷	All Motor Vehicle Fees and Taxes ¹⁸	STATE
Total	Dealers' Licenses and Plates	Opera- tors' and Chauf- eurs' Permits	Certi- ficates of Title	Fines and Penalties	Transfer Fees and Other Miscel.			
\$5	\$2	.....	.....	.....	\$3	\$63	\$3,251	Alabama ¹⁹
130	3	15	50	.....	61	105	864	Arizona
53	17	22	.....	.....	6	19	2,203	Arkansas
1,258	34	155	.....	66	1,003	1,377	11,517	California
521	19	25	121	.....	1,356	186	2,358	Colorado
1,602	72	1,293	.....	142	95	151	8,099	Connecticut
154	5	110	27	.....	12	.....	883	Delaware
216	17	6	149	.....	44	15	4,409	Florida
34	6	14	.....	.....	14	.....	1,193	Georgia
27	19	2	.....	.....	6	41	1,601	Idaho
1,806	79	237	930	.....	560	.....	18,284	Illinois
1,083	39	466	224	.....	1,354	25	7,285	Indiana
299	46	36	.....	1	216	376	10,410	Iowa
103	20	25	.....	.....	58	629	3,907	Kansas
136	22	18	.....	.....	96	204	3,217	Kentucky
82	13	62	.....	8	181	.....	4,380	Louisiana
677	32	482	.....	12	151	18	3,165	Maine
640	32	245	144	179	40	.....	3,523	Maryland
2,814	62	2,107	.....	431	214	.....	6,634	Massachusetts
1,695	58	785	531	.....	321	297	16,198	Michigan
280	29	252	.....	2	183	17	6,884	Minnesota
24	2	.....	.....	20	2	73	2,023	Mississippi
718	64	128	300	.....	226	326	7,670	Missouri
65	15	1	20	.....	29	11	1,082	Montana
165	11	65	.....	.....	89	14	1,945	Nebraska
10	22	.....	.....	.....	8	139	387	Nevada
436	59	3,296	366	77	21	5	2,482	New Hampshire
4,287	59	3,296	366	91	475	73	15,687	New Jersey
28	6	.....	.....	1	21	67	910	New Mexico
4,423	176	2,993	.....	.....	1,254	14	41,664	New York
146	.....	.....	139	.....	7	126	7,070	North Carolina
54	11	.....	17	.....	26	15	1,306	North Dakota
1,003	92	191	.....	.....	720	18	19,961	Ohio
436	32	.....	209	.....	195	610	3,861	Oklahoma
275	10	200	53	.....	12	227	2,070	Oregon ²¹
222	15	70	107	.....	30	620	2,839	Pennsylvania
7,970	301	4,610	1,337	383	1,339	18	30,842	Rhode Island
431	15	354	.....	.....	62	14	2,315	South Carolina ²⁴
269	13	150	.....	41	65	81	2,912	South Dakota
34	10	.....	19	.....	5	264	1,578	Tennessee
491	8	.....	.....	19	3	37	3,359	Texas ²⁵
102	38	152	.....	.....	301	48	14,969	Utah
300	9	43	31	2	17	218	1,184	Vermont
626	24	237	.....	.....	39	14	2,157	Virginia ²⁶
337	42	262	192	.....	130	116	5,063	Washington
208	8	180	138	.....	11	186	2,913	West Virginia ²⁰
123	15	100	63	.....	30	30	2,017	Wisconsin
10	23	18	.....	.....	82	1,034	11,085	Wyoming
506	5	.....	.....	.....	5	46	483	Dist. of Col.
.....	3	192	79	203	29	153	830	Detailed Totals ²²
37,344	1,657	19,915	5,246	1,687	8,839	8,001	312,929	Grand Totals

¹⁷—Commercial full trailers prohibited; light trailers not registered; semitrailer units registered as trucks.
¹⁸—Negative item due to deduction of refunds from miscellaneous receipts.

¹⁹—Fees of light trailers only; fees of heavy trailers with those of freight motor vehicles.

²⁰—Passenger-mile taxes paid by interurban common-carrier busses included with registration fees of passenger motor vehicles.

²¹—Included with fees of freight motor vehicles.

²²—Date of ending registration year changed in 1933 from June 30 to December 31. Upper line gives figures for six-month period. ²³—For registration year ended October 31, 1934. ²⁴—Motorcycle fees \$399.

²⁵—For 15-month period ended March 31, 1935. Date of ending registration year changed from December 31. ²⁶—Fees of light delivery trucks with those of passenger cars.

²⁷—For registration year ended March 31, 1935.

²⁸—Fees of contract and common carrier trailers included with those of freight motor vehicles.

²⁹—For six-month period ended June 30, 1934. Date of ending registration year changed from December 31. ³⁰—Motorcycle fees \$396.

³¹—Totals of columns for which figures were obtained from only part of the states. Only the grand totals (line below) give full national figures.

\$565,027,000 State Gas Taxes in 1934

(Figures from U. S. Bureau of Public Roads, calendar year 1934)

State	In Thousands of Dollars			CLASSIFICATION OF TAX EARNINGS			
	Gross Tax Assessed ¹	Refunds Earned or Paid ²	Net Earnings On All Motor Fuel Taxed ³	By Rate of Tax At Reduced Rates ⁴	By Use of Fuel ⁵	For Highway Use ⁶	For Other Uses
				At Full Rate	Cents Per Gallon	Amount	
Alabama.....	9,299	.....	9,299	9,299	.....	.....	.....
Arizona.....	5,542	514	5,028	3,028	.....	.....	3,028
Arkansas.....	8,118	254	7,864	7,047	6, 5, 4, 2	817	47,481
California.....	39,621	3,661	35,960	35,960	.....	.....	35,960
Colorado.....	7,591	1,116	6,475	3,719	4	2,756	6,475
Connecticut.....	5,099	126	4,973	4,973	.....	.....	4,973
Delaware.....	1,246	61	1,185	1,185	.....	.....	1,185
Florida.....	16,499	.....	16,499	16,499	.....	.....	.....
Georgia.....	14,366	.....	14,366	14,366	.....	.....	.....
Idaho.....	3,169	298	2,871	2,865	2½	6	2,865
Illinois.....	30,772	1,646	29,126	29,126	.....	.....	29,126
Indiana.....	18,626	1,076	17,550	17,550	.....	.....	17,550
Iowa.....	12,114	864	11,250	11,250	.....	.....	11,250
Kansas.....	8,516	.....	8,516	8,516	.....	.....	8,516
Kentucky.....	9,218	.....	9,218	9,218	.....	.....	.....
Louisiana.....	8,923	.....	8,923	8,922	4	1	.....
Maine.....	4,632	146	4,486	4,437	1	49	4,437
Maryland.....	8,251	442	7,809	7,758	3	51	7,809
Massachusetts.....	17,635	633	17,002	17,002	.....	.....	17,002
Michigan.....	22,068	1,090	20,978	20,961	1½	17	20,961
Minnesota.....	12,150	1,305	10,845	10,845	.....	.....	10,845
Mississippi.....	7,519	631	6,888	6,760	1	128	6,760
Missouri.....	9,810	235	9,575	9,575	.....	.....	9,575
Montana.....	4,274	610	3,664	3,664	.....	.....	3,664
Nebraska.....	8,667	97	8,570	8,570	.....	.....	.....
Nevada.....	988	94	894	894	.....	.....	894
New Hampshire.....	2,826	80	2,746	2,746	.....	.....	2,746
New Jersey.....	17,035	1	17,034	17,032	2	2	17,032
New Mexico.....	2,809	252	2,557	2,557	.....	.....	2,557
New York.....	45,044	1,117	43,927	43,927	.....	.....	43,927
North Carolina.....	16,788	306	16,482	16,421	1	61	16,421
North Dakota.....	2,906	644	2,262	2,262	.....	.....	2,262
Ohio.....	38,982	1,364	37,618	36,409	1	1,209	36,409
Oklahoma.....	10,817	.....	10,817	10,817	.....	.....	10,817
Oregon.....	8,299	1,047	7,252	7,246	.....	.....	7,246
Pennsylvania.....	33,409	.....	33,409	33,409	1	6	.....
Rhode Island.....	2,177	120	2,057	2,057	.....	.....	2,057
South Carolina.....	7,836	117	7,719	7,719	.....	.....	.....
South Dakota.....	3,960	195	3,765	3,570	2	195	3,570
Tennessee.....	14,114	.....	14,114	14,114	.....	.....	.....
Texas.....	35,005	3,365	31,640	31,640	.....	.....	31,640
Utah.....	2,514	.....	2,514	2,514	.....	.....	.....
Vermont.....	1,942	.....	1,942	1,942	.....	.....	.....
Virginia.....	13,205	728	12,477	12,477	.....	.....	12,477
Washington.....	13,039	1,080	11,959	11,959	.....	.....	11,959
West Virginia.....	5,905	209	5,696	5,696	.....	.....	5,696
Wisconsin.....	16,829	1,430	15,399	15,399	.....	.....	15,399
Wyoming.....	1,764	.....	1,764	1,764	.....	.....	.....
Dist. of Col.....	2,077	14	2,063	2,063	.....	.....	2,063
Detailed Totals ⁷.....	.....	.....	.....	.....	.....	434,634	2,056
Grand Totals.....	591,995	26,968	565,027	559,729	.....	5,298	.....

¹—The purpose of this classification is to distinguish between the tax earnings of motor fuel sold for use in motor vehicles on the highways and tax earnings on motor fuel sold for other uses. In the case of those states which do not make this distinction, the classification is omitted.

²—In the great majority of cases the assessments or earnings of the calendar year were reported. A few states reported the actual collections of the year, which lag the assessments by one to two months.

³—In most cases the refunds reported were those actually paid during the year, rather than refunds claimed on motor fuel purchased during the year. The error involved in deducting refunds paid from gross tax assessed tends to balance over an annual period. The refunds tabulated include both refunds of the entire tax and partial refunds.

⁴—In the case of Arkansas and Colorado, where the rate was changed during the year, the tax earnings at the lower rates, 6 and 4 cents, respectively, are shown under this heading.

⁵—Includes \$445,000 on 6-cent tax prior to February 13, 1934, and amounts at reduced rates at state borders, as follows: At 5 cents, \$7,000 at 4 cents, \$347,000 at 2 cents \$18,000

⁶—Estimated by state.

⁷—Refunds are made on all non-highway uses with the exception of fuel used in commercial motorboats. Earnings on motorboat fuel (amount not reported) are included.

⁸—Classification by use includes 36 states and the district of Columbia.

Motor Fuel Consumption and Exemptions, 1934

(Figures from U. S. Bureau of Public Roads, calendar year 1934)

The following symbols are used to designate certain classes or uses of motor fuel exempted from tax payment, subject to refund of the tax, or taxed at a lower rate:

- P —Sales to Federal Government.
P —(Public) sales to state, county, or municipal governments.
E —Fuel exported to other states or countries.
IC —Fuel moving through the state in interstate commerce.
NH—Uses other than for propelling motor vehicles on the highways.
- C —Use in public construction.
AV—Aviation use.
U —Use in vehicles licensed to operate exclusively in cities.
B —Motorboat use.
D —Fuel destroyed by fire, acts of God, etc.
R —Routine refunds (overpayment, etc.)

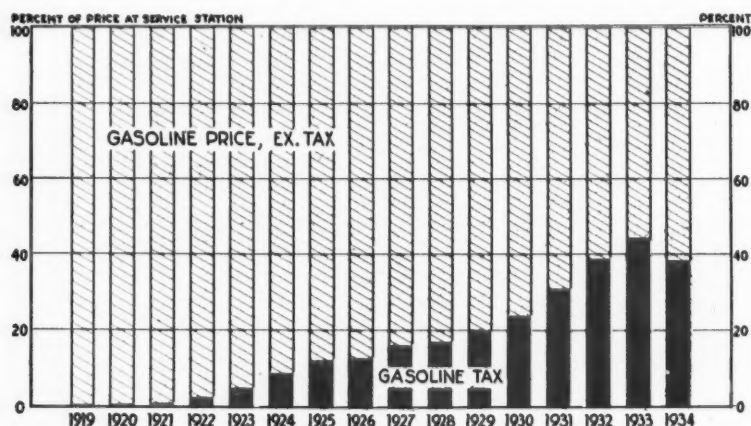
In Thousands of Gallons

State	Gross Amount Reported by State ¹	Exempted From Payment of Tax ²	Classes of Use	Shrinkage Allowance, Dis-Counts, Etc. ³	%	Gross Amount Assessed for Taxation	Subject To Refund of Entire Tax	Classes	Amount on Which Tax Was Earned
Alabama.....	154,977					154,977			154,977
Arizona.....	*75,502	3,944	F	1	713	70,845	10,280	NH, E	60,565
Arkansas.....	*134,249	3,444	F, E	1	1,276	129,529	3,953	NH, C	125,576
California.....	1,356,386	22,361	F	1	13,340	1,320,685	122,030	NH	1,198,655
Colorado.....	*172,672	2,016	F	2	3,353	167,303	24,013	NH, D, E	143,290
Connecticut....	*308,239	50,757	F, E	1	2,549	254,933	6,275	NH	248,658
Delaware.....	41,556					41,556	2,042	NH	39,514
Florida.....	246,387	7,564	F, P		3,125	235,698			235,698
Georgia.....	243,823	2,203	P		2,185	239,435			239,435
Idaho.....	65,828	2,314	F			63,514	5,961	NH	57,553
Illinois.....	1,025,751					1,025,751	54,877	NH	970,874
Indiana.....	465,638					465,638	26,895	NH	438,743
Iowa.....	423,886	7,366	F, P	3	12,717	403,803	28,805	NH	374,998
Kansas.....	*378,781	87,330	F, NH, IC	2	7,575	293,876			293,876
Kentucky.....	184,369					184,369			184,369
Louisiana.....	183,977			3	5,519	178,458	1	F	178,457
Maine.....	116,994	1,200	F			115,794			115,794
Maryland.....	207,652	1,373	F			206,279	10,616	NH	195,663
Massachusetts..	*590,625	2,797	F, E			587,828	21,093	F, NH	566,735
Michigan.....	735,593					735,593	35,763	NH	699,830
Minnesota.....	419,454	1,908		3	12,534	405,012	43,500	NH	361,512
Mississippi.....	130,156	2,180	F	2	2,547	125,429			125,429
Missouri.....	505,677			3	15,170	490,507	11,743	NH	478,764
Montana.....	*90,567	2,562	F, E	2	2,523	85,482	12,211	NH	73,271
Nebraska.....	*224,195	798	P	3	6,726	216,671	2,414	E, D	214,275
Nevada.....	*27,204	2,497	F, E, IC			24,707	2,352	NH	22,355
New Hampshire..	70,652					70,652	2,011	NH	68,641
New Jersey.....	*732,761	164,922	F, P, NH, E			567,839			567,839
New Mexico.....	*60,997	3,922	F, E, IC	2	898	56,177	5,043	NH	51,134
New York.....	1,569,141	52,511	F, P	1	15,167	1,501,463	37,221	NH	1,464,242
North Carolina..	284,214	2,540	F, AV	1	1,877	279,797			279,797
North Dakota....	96,875					96,875	21,485	NH	75,390
Ohio.....	*1,303,642	239,900	F, E, IC	3	31,912	1,031,830	673	D, R	1,031,157
Oklahoma.....	*312,165	33,748	F, IC, NH	3	7,985	270,432			270,432
Oregon.....	*165,978					165,978	20,464	NH, E	145,514
Pennsylvania....	1,136,343			2	22,714	1,113,629			1,113,629
Rhode Island....	*233,167	124,303	F, E			108,864	6,030	NH, E	102,834
South Carolina..	130,606					130,606	1,960	F	128,646
South Dakota....	103,122			4	4,125	98,997			98,997
Tennessee.....	207,857	4,148	F, P	1	2,075	201,634	7	D, R	201,627
Texas.....	893,802	9,824	F	1	8,840	875,138	84,133	NH	791,005
Utah.....	64,836			3	1,978	62,858			62,858
Vermont.....	48,550					48,550			48,550
Virginia.....	264,102					264,102	14,562	NH	249,540
Washington.....	260,778					260,778	21,591	NH	239,187
West Virginia...	147,610					147,610	5,217	NH	142,393
Wisconsin.....	431,513			2½	10,788	420,725	35,744	NH	384,981
Wyoming.....	44,111					44,111			44,111
Dist. of Col....	147,607	42,186	F, P	2	1,601	103,820	691	NH	103,129
Total.....	17,220,567	882,618				201,812	16,136,137		681,656
									15,454,481

¹—In this column is given the total amount of motor fuel reported prior to deduction of exempted fuel, allowance for shrinkage etc., and amount subject to refund. Wherever possible, fuel exempted because of export or interstate movement, or to avoid duplication of tax payment, has been eliminated, in order that the total may represent as closely as possible the total consumption of motor fuel in the state. Starred items indicate that unknown amounts of export sales or fuel moving in interstate commerce are included in the total shown. ²—A number of states failed to report exempted fuel. Symbols are given only where amounts are reported. ³—Allowances for loss by leakage evaporation, etc., and percentage discounts allowed to distributors. Percentages are given only where amounts are reported. In some states the percentage is computed on the gross reported; in others on the net after deduction of exempted fuel. In some states the percentage is fixed; in others it is the maximum allowable.

Diminishing Purchase Value of the Gasoline Dollar

(Chart from American Petroleum Industries Committee)



7 Percent Increase in 1934 Gasoline Consumption

(Figures from the American Petroleum Industries Committee)

	Gallons (000 omitted) 1934	Gallons (000 omitted) 1933	Percent Change From 1933		Gallons (000 omitted) 1934	Gallons (000 omitted) 1933	Percent Change From 1933
Ala.....	155,047	133,885	+15.8	Nebr.....	223,372	194,698	+14.8
Ariz.....	73,219	64,506	+13.5	Nev.....	24,707	20,629	+19.4
Ark.....	140,156	121,195	+15.7	N. H.....	70,640	65,871	+ 7.2
Calif.....	1,334,177	1,323,482	+ .81	N. J.....	734,521	698,779	+ 5.1
Colo.....	172,756	159,917	+ 8.0	N. Mex....	56,154	48,342	+16.3
Conn.....	254,933	248,126	+ 2.7	N. Y.....	1,577,019	1,541,989	+ 2.3
Dela.....	41,556	40,210	+ 3.4	No. Car...	279,796	241,416	+15.9
D. of Col...	103,734	104,852	- 1.1	No. Dak...	102,931	99,725	+ 3.2
Fla.....	236,775	205,568	+15.2	Ohio.....	955,470	886,640	+ 7.8
Ga.....	239,498	210,575	+13.8	Okla.....	300,431	275,100	+ 9.2
Idaho.....	65,770	52,314	+25.9	Ore.....	165,978	158,904	+ 4.4
Ill.....	1,025,918	970,986	+ 5.6	Penn.....	1,136,344	1,048,463	+ 8.8
Ind.....	465,438	439,009	+ 6.0	R. I.....	108,864	100,202	+ 8.7
Iowa.....	403,803	355,568	+13.6	So. Car...	132,347	111,940	+18.5
Kansas....	378,781	349,928	+ 8.2	So. Dak....	109,514	100,340	+ 9.2
Ky.....	184,367	166,292	+10.9	Tenn.....	212,037	185,164	+14.5
La.....	178,457	163,139	+ 9.4	Tex.....	875,034	774,413	+13.1
Me.....	116,993	107,583	+ 8.7	Utah.....	64,140	54,705	+17.1
Md.....	206,279	191,010	+ 7.9	Vt.....	48,550	44,151	+10.0
Mass.....	587,789	561,164	+ 4.7	Va.....	259,123	233,439	+11.2
Mich.....	781,971	740,297	+ 5.6	Wash.....	260,778	236,690	+10.1
Minn.....	431,545	401,723	+ 7.5	W. Va....	147,609	129,082	+14.4
Miss.....	131,263	115,637	+13.5	Wis.....	420,725	387,490	+ 8.6
Mo.....	489,401	465,876	+ 5.0	Wyoming..	43,986	35,466	+24.3
Mont.....	85,484	69,844	+22.3				
				Total...	16,595,180	15,436,324	+7.5

Gasoline Tax Rates by States

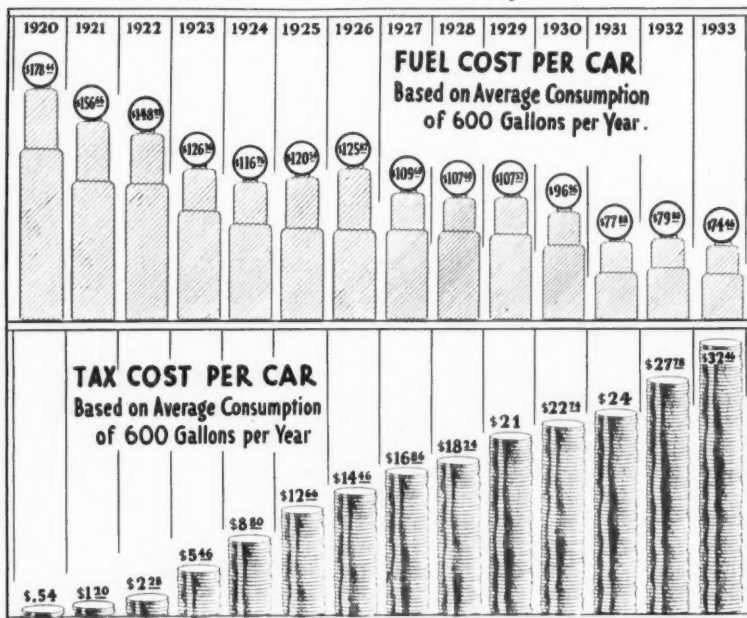
Figures show cents per gallon levied by states. Federal, county and municipal gas taxes are not included.

	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
Ala. ....	..	0-2	2	2	2	2-4	4	4	4	4-5	5-6	6	6	6
Ariz.	1	1-3	3	3	3	3-4	4	4	4	4-5	5	5	5	5
Ark.	1	1-3	4	4	4	4-5	5	5	5	5-6	6	6	6-6½	6½
Calif. ....	..	0-2	2	2	2	2-3	3	3	3	3	3	3	3	3
Colo.	1	1-2	2	2	2	2-3	3	3-4	4	4	4	4	4-5*	4
Conn.	1	..	1	1-2	2	2	2	2	2	2	2	2	2	2-2-3
Delaware ..	..	0-1	2	2	2	2-3	3	3	3-4	4	4	4	4	4
Florida ...	1	1-3	3	3-4	4	4-5	5	5-6	6	6-7	7	7	7	7
Georgia ...	1	1-3	3	3-3½	3½	3½-4	4	4-6	6	6	6	6	6	6
Idaho. ....	..	0-2	2	2-3	3	3-4	4	4	4-5	5	5	5	5	5
Illinois ...	..	..	..	2-3	3	3	3	3-4	4	4	4	4	4	4
Indiana ...	..	0-2	2	2-3	3	3	3	3-4	4	4	4	4	4	4
Iowa. ....	..	..	..	0-2	2	2-3	3	3	3	3	3	3	3	3
Kansas. ...	..	..	..	0-2	2	2	2	2-3	3	3	3	3	3	3
Kentucky ..	1	1	1-3	3	5	5	5	5	5	5	5	5	5	5
Louisiana .	1	1	1-2	2	2	2	2	2-4	4-5	5	5	5	5	5
Maine. ....	..	0-1	1	1-3	3	3-4	4	4	4	4	4	4	4	4
Maryland. .	0-1	1	2	2	2	2-4	4	4	4	4	4	4	4	4
Mass. ....	..	..	..	..	..	..	..	2	2	2-3	3	3	3	3
Michigan ..	..	..	..	0-2	2	2-3	3	3	3	3	3	3	3	3
Minn. ....	..	..	..	0-2	2	2	2	2-3	3	3	3	3	3	3
Miss.	0-1	1	1-3	3	4	4	4-5	5	5-5½	5½-6	6	6	6	6
Missouri ..	..	..	..	2	2	2	2	2	2	2	2	2	2	2
Montana. .	1	1-2	2	2	2	3	3	3-5	5	5	5	5	5	5
Nebraska. .	..	..	..	0-2	2	2	2	2-4	4	4	4	4	4	4-5
Nevada. ...	..	0-2	2	2-4	4	4	4	4	4	4	4	4	4	4
N. Hamp. ...	..	0-1	2	2	2	2-3	4	4	4	4	4	4	4	4
N. Jersey ..	..	..	..	..	..	0-2	2	2	2-3	3	3	3	3	3
N. Mexico. .	1	1	1	1-3	3	3-5	5	5	5	5	5	5	5	5
New York. .	..	..	..	..	..	..	..	0-2	2	2	2-3	3	3	3-4
N. Car.	1	1-3	3	3-4	4	4	4	4-5	5	5-6	6	6	6	6
N. Dak. ...	1	1	1	1	1-2	2	2	2-3	3	3	3	3	3	3
Ohio. ....	..	..	..	0-2	2	2	2	2	2	2	2	2	2	2
Oklahoma. .	..	0-1	1-2½	2½-3	3	3	3	3-4	4	4-5	4	4	4	4
Oregon.	2	2-3	3	3	3	3	3	3	4	4	4	4-5	5	5
Penn.	1	1-2	2	2	2	2-3	3	3-4	4-3	3	3	3	3	3-4
R. Island. .	..	..	..	0-1	1	1-2	2	2	2	2	2	2	2	2
S. Car.	0-2	2-3	3	3-5	5	5	5	5-6	6	6	6	6	6	6
So. Dak. ...	1	1-2	2	2-3	3	3-4	4	4	4	4	4	4	4	4
Tenn. ....	..	0-2	2	2-3	3	3	3	3-5	5	5-6-7	7	7	7	7
Texas. ....	..	0-1	1	1	1	1-3	3-2	2-4	4	4	4	4	4	4
Utah. ....	..	0-2½	2½	2½-3½	3½	3½	3½	3½	3½-4	4	4	4	4	4
Vermont. ...	..	0-1	1	1-2	2	2-3	3	3-4	4	4	4	4	4	4
Virginia. .	..	0-3	3	3	3-4½	4½	4½-5	5	5	5	5	5	5	5
Wash.	1	1	2	2	2	2	2	2-3	3	3-5	5	5	5	5
W. Va. ....	..	0-2	2	2-3½	3½	3½-4	4	4	4	4	4	4	4	4
Wisconsin. .	..	..	..	0-2	2	2	2	2	2	2-4	4	4	4	4
Wyoming. .	..	0-1	1	1-2½	2½	2½-3	3	3-4	4	4	4	4	4	4
D. of C. ...	..	..	0-2	2	2	2	2	2	2	2	2	2	2	2

NOTE—The above table is corrected as of June 1st, 1935.

*Effective Feb. 1 to Sept. 1, 1934.

Decline in Gasoline Costs Offset by Tax Increases



Gasoline Prices and Taxes 1919-1934

(Figures from American Petroleum Industries Committee)

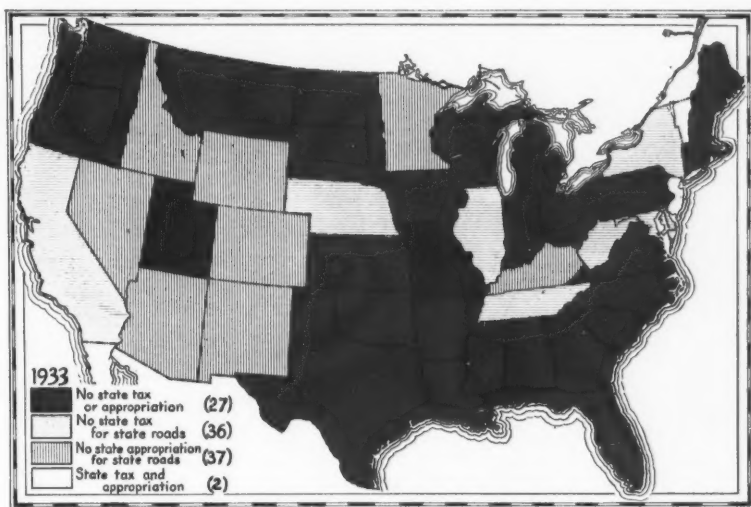
50 Representative Cities, Average First of Month, in Cents per Gallon

Year	Tank Wagon (Ex. Tax)	Service Station (Ex. Tax)	State and Federal Gasoline Tax	Service Station (Inc. Tax)
1919	.2411	.2541	.0006	.2547
1920	.2805	.2974	.0009	.2983
1921	.2409	.2611	.0020	.2631
1922	.2263	.2482	.0038	.2520
1923	.1866	.2106	.0091	.2197
1924	.1686	.1946	.0148	.2094
1925	.1746	.2009	.0211	.2220
1926	.1842	.2097	.0241	.2338
1927	.1581	.1828	.0281	.2109
1928	.1561	.1790	.0304	.2094
1929	.1557	.1792	.0350	.2142
1930	.1449	.1616	.0379	.1995
1931	.1178	.1298	.0400	.1698
1932	.1245	.1330	.0463	.1793
1933	.1162	.1241	.0541	.1782
1934	.1226	.1364	.0542	.1884

36 States Levied No General Property Taxes for State Highways in 1933

27 States Made No Special Appropriations or General Levies on Property
for State Highways

(Data from Highway Income Tables Compiled by U. S. Bureau of Public Roads)



22 States Reduce License Fees

(Source: American Automobile Association)

During the past three years the following states have reduced registration fees on passenger cars:

Arkansas
Delaware
Florida
Georgia
Idaho
Kansas

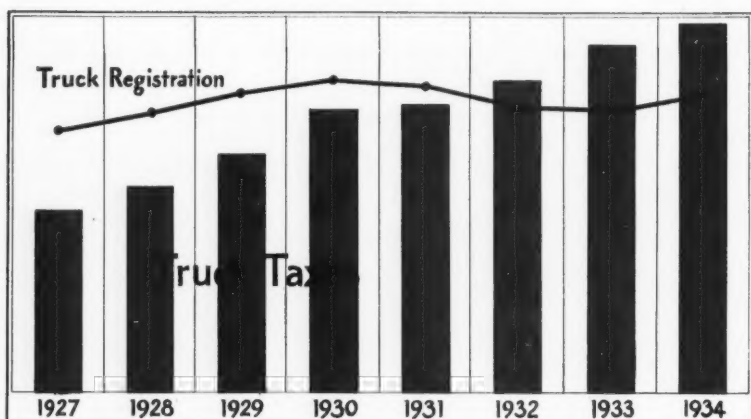
Kentucky
Michigan
Minnesota
Mississippi
Missouri

Montana
Nebraska
Nevada
Oklahoma
Oregon

South Carolina
*Tennessee
Utah
Virginia
*Vermont
West Virginia

*Reduced twice

Motor Truck Taxes Climb

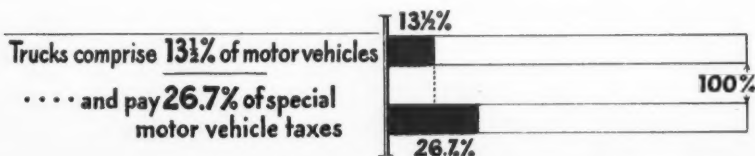


1934 Special Truck Taxes \$308,828,000

Personal property taxes on trucks in operation, income and property taxes on garages, terminals, repair shops, and trucking companies are not included.

	1929	1930	1931	1932	1933	1934
Registration fees (state).....	\$72,823,000	\$78,789,000	\$76,616,000	\$74,046,000	\$68,659,000	\$71,852,000
Gasoline tax (state).....	108,506,000	138,055,000	144,756,000	139,376,000	142,287,000	154,170,000
Federal excise taxes.....	0	0	0	23,537,000 ¹	61,936,000	63,038,000
Special city and county license fees, gas taxes, tolls, etc....	6,800,000	7,200,000	7,600,000	8,000,000	8,750,000	9,000,000
Miscellaneous state taxes....	6,352,000	7,042,000	7,724,000	7,360,000	8,525,000	10,768,000
Total Special Taxes (excluding property tax)....	194,481,000	231,086,000	236,696,000	252,319,000	290,157,000	308,828,000
Average per truck registered..	\$57.50	\$66.40	\$68.50	\$78.25	\$90.31	\$90.92

¹—Federal excise taxes effective June 21, 1932.



Special Motor Truck Taxes by States

State Registration Fees and State and Federal Gasoline Taxes on Trucks Are Shown

	1933			1934		
	State License Fees*	Gasoline Tax	1933 Total	State License Fees*	Gasoline Tax	1934 Total
Alabama.....	\$617,609	\$2,595,906	\$3,213,515	\$730,476 ¹	\$2,864,484	\$3,594,960
Arizona.....	295,804	1,092,675	1,388,479	350,100	1,208,952	1,559,052
Arkansas.....	575,415	2,869,260	3,444,675	786,540	3,105,900	3,892,440
California.....	3,266,252	11,224,437	14,490,696	3,174,540	11,402,688	14,577,228
Colorado.....	404,709	1,728,279	2,132,988	449,100	1,872,057	2,321,157
Connecticut.....	1,794,025	2,049,986	3,844,021	1,820,300	2,011,608	3,831,908
Delaware.....	278,583	432,735	711,298	264,180	450,912	715,092
Florida.....	1,170,626	2,456,881	5,627,507	1,312,560	5,314,464	6,627,024
Georgia.....	175,274	4,455,444	4,630,718	212,440	5,062,008	5,274,448
Idaho.....	361,918	1,116,300	1,478,218	433,050	1,285,992	1,719,042
Illinois.....	4,051,568	9,409,086	13,460,654	4,284,720	8,906,536	13,191,256
Indiana.....	1,645,310	7,330,743	8,976,053	1,949,450	7,367,460	9,316,910
Iowa.....	1,749,339	2,543,990	4,293,329	2,136,890	3,616,800	5,753,690
Kansas.....	751,019	3,692,604	4,443,623	748,420	3,627,120	4,375,540
Kentucky.....	1,145,179	2,408,325	3,553,504	922,960	2,696,040	3,619,000
Louisiana.....	1,147,811	3,150,525	4,298,336	1,329,760	3,224,088	4,553,848
Maine.....	757,372	2,222,073	2,979,445	950,170	2,261,580	3,211,750
Maryland.....	588,311	2,188,864	2,777,175	707,200	2,721,060	3,428,260
Massachusetts.....	1,579,547	5,092,554	6,672,101	1,604,680	4,728,384	6,333,064
Michigan.....	4,266,503	6,202,589	10,469,092	4,470,500	5,923,440	10,393,940
Minnesota.....	1,595,952	5,055,630	6,651,582	1,595,000	4,986,336	6,581,336
Mississippi.....	527,134	2,864,382	3,391,522	532,701 ¹	2,865,660	3,398,361
Missouri.....	1,192,502	4,048,305	5,239,807	1,163,520	3,877,524	5,041,044
Montana.....	209,367	2,061,000	2,270,367	232,600	2,238,264	2,470,864
Nebraska.....	537,161	3,398,661	3,935,822	654,450	3,393,600	4,048,050
Nevada.....	94,825	373,401	468,226	109,900	383,460	493,360
New Hampshire.....	700,623	1,251,936	1,952,559	626,214 ¹	1,342,920	1,969,134
New Jersey.....	4,283,468	6,233,628	10,517,096	4,117,180	5,920,848	10,038,028
New Mexico.....	231,934	1,146,750	1,378,684	287,320	1,160,064	1,447,384
New York.....	12,338,375	15,223,908	27,562,283	10,948,990	14,322,192	25,271,182
North Carolina.....	1,137,514	4,320,420	5,457,934	1,483,520	4,600,344	6,083,864
North Dakota.....	320,754	1,292,442	1,613,196	303,180	1,263,120	1,566,300
Ohio.....	5,961,966	9,965,907	15,927,873	7,010,210	9,590,700	16,600,910
Oklahoma.....	663,570	4,153,275	4,816,846	1,017,400	4,435,680	5,453,080
Oregon.....	1,070,669	2,415,600	3,486,269	1,379,550	2,981,592	4,361,142
Pennsylvania.....	7,887,318	11,194,347	19,081,665	8,155,400	10,320,768	18,476,168
Rhode Island.....	423,754	700,635	1,124,389	504,720	659,952	1,164,672
South Carolina.....	491,804	1,548,165	2,039,969	524,900	1,753,668	2,278,568
South Dakota.....	182,503	1,434,132	1,616,635	174,760	1,429,920	1,604,680
Tennessee.....	509,244	3,349,952	3,859,196	811,257 ¹	3,624,480	4,435,737
Texas.....	3,938,149	11,886,588	15,824,737	4,838,470	13,576,560	18,415,030
Utah.....	208,044	885,924	1,093,968	295,320	1,026,180	1,321,500
Vermont.....	432,025	499,212	931,237	521,000	516,720	1,037,720
Virginia.....	1,190,923	4,258,350	5,389,273	1,225,900	4,123,296	5,349,196
Washington.....	875,438	3,691,100	4,566,538	1,297,550	4,631,112	5,928,662
West Virginia.....	851,735	2,105,145	2,956,880	886,120	1,635,180	2,021,300
Wisconsin.....	2,493,363	6,573,861	9,067,224	2,595,680	7,210,800	9,806,480
Wyoming.....	198,310	670,509	868,819	154,000	786,120	940,120
Dist. of Col.....	75,403	652,938	728,341	74,600	621,468	696,068

U. S. Total.. \$77,183,988 \$189,521,076 \$266,705,064 \$82,620,448 \$194,930,101 \$277,550,549

*Includes trailer fees, proportion of dealers, operators, chauffeurs' permits and miscellaneous receipts.

¹ Estimated by multiplying U. S. average tax per truck, for those states segregating truck taxes, by the number of trucks registered.

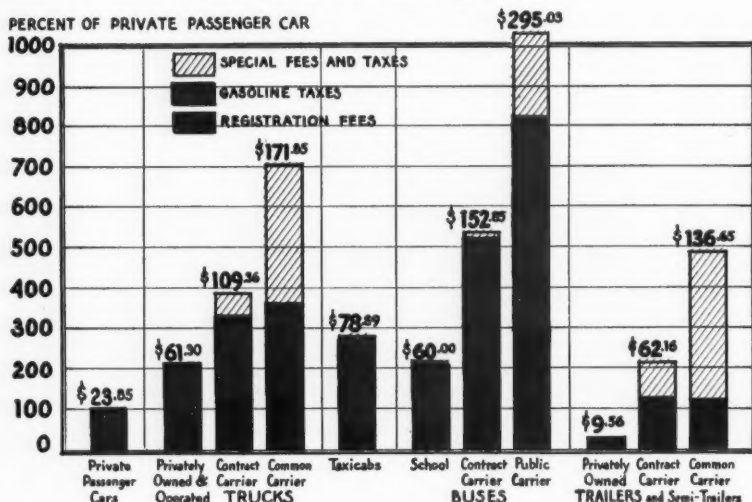
It has been impossible to ascertain whether or not the special taxes on common and contract carriers, such as ton-mile, gross receipts, vehicle-mile, etc., have been included in the regular reports issued by the state motor vehicle bureaus and the U. S. Bureau of Public Roads. In some states the common and contract carrier taxes may have been included and in other states excluded.

No attempt has been made to estimate Federal excise taxes on new trucks (2% of wholesale value), parts and accessories (2%), lubricating oil (4 cts. a gallon), tires (2½ cts. a lb.), inner tubes (4 cts. a lb.). Nor has an estimate been included for special municipal and county gasoline taxes and registration fees on trucks effective in many states.

Personal property taxes and general sales taxes have likewise not been included. The table represents state registration fees and state and Federal gasoline taxes only.

The gasoline tax paid by trucks has been estimated by multiplying the trucks registered in each state by a yearly average consumption of 1200 gallons per truck, times the gas tax rate effective in each state plus Federal excise of 1 cent.

Taxes on Privately Operated Trucks $2\frac{1}{5}$ Times Taxes on Private Passenger Cars



Taxes on Common Carrier Trucks Six Times Average Passenger Car Tax

(Figures from "Taxation of Motor Vehicles", a special survey by the U. S. Bureau of Public Roads, calendar year 1932)

	Regis- tration Fees	Gasoline Taxes	Special Fees and Taxes	Total	Per Cent of Tax on Pass. Car
Private Passenger Cars.....	\$10.28	\$18.07	.....	\$28.35	100.0
Private Trucks.....	22.05	39.19	.56	61.80	218.0
Trucks, contract-carrier.....	62.59	31.09	15.68	109.36	386.0
Trucks, common-carrier.....	74.42	31.80	65.63	171.85	605.0
Taxicabs.....	17.72	60.64	1.53	79.89	282.0
Buses, school.....	21.30	38.70	.....	60.00	212.0
Buses, contract.....	47.49	100.12	5.24	152.85	538.0
Buses, public carrier.....	83.90	148.17	62.96	295.03	1,040.0
Trailers, private.....	9.56	.....	.....	9.56	34.0
Trailers, contract-carrier.....	35.74	.....	26.42	62.16	219.0
Trailers, common-carrier.....	34.15	.....	102.50	136.65	482.0

Revenue Buses Paid \$33,300,000 Special Taxes in 1934

(Figures from National Association of Motor Bus Operators)

	1930	1931	1932	1933	1934
Special taxes.....	\$31,200,000	\$32,525,000	\$34,500,000	\$33,470,000	\$33,300,000
General taxes.....	4,900,000	4,125,000	4,150,000	4,030,000	3,980,000
Total bus taxes.....	36,100,000	36,650,000	38,650,000	37,500,000	37,280,000
Special taxes per bus...	\$677	\$716	\$767	\$743.77	\$774.42
General taxes per bus...	\$106	\$91	\$92	\$89.56	\$92.56
Total taxes per bus....	\$783	\$807	\$859	\$833.33	\$866.98
Special tax per bus per mile of highway used.	\$90.87	\$88.62	\$90.93	\$81.64	\$82.91

\$35,880,000 in Personal Property Taxes

On Motor Vehicles in 32 States During 1932

Figures Are Incomplete But It Is Believed They Represent
Approximately Total Amounts Derived From These Sources

(Survey by U. S. Bureau of Public Roads)

State	Taxes Collected	State	Taxes Collected	State	Taxes Collected
Alabama.....	\$670,000	Maine.....	1,034,000	Oklahoma....	None
Arizona.....	730,000	Maryland....	1,487,000	Oregon.....	None
Arkansas.....	192,000	Massachusetts	6,184,000	Pennsylvania*	None
California....	5,285,000	Michigan....	None	Rhode Island.	853,000
Colorado.....	853,000	Minnesota....	None	South Carolina	362,000
Connecticut..	1,790,000	Mississippi..	447,000	South Dakota	None
Delaware.....	None	Missouri.....	1,593,000	Tennessee....	133,000
D. of C.....	475,000	Montana.....	283,000	Texas.....	1,715,000
Florida.....	None	Nebraska....	689,000	Utah.....	268,000
Georgia.....	542,000	Nevada.....	133,000	Vermont.....	None
Idaho.....	None	New Hamp....	513,000	Virginia.....	516,000
Illinois.....	1,855,000	New Jersey..	None	Washington..	1,393,000
Indiana.....	2,017,000	New Mexico..	None	West Virginia.	458,000
Iowa.....	None	New York....	None	Wisconsin....	None
Kansas.....	908,000	North Carolina	639,000	Wyoming.....	228,000
Kentucky....	850,000	North Dakota	None		
Louisiana....	785,000	Ohio.....	None	Total.....	35,880,000

*Law levying personal property tax enacted in 1935.

Motorist Pays \$62.72 in Taxes on

(Source: National Highway Users

	FEDERAL EXCISE TAXES ON						STATE GASOLINE TAX	
	Automobile 1	Extra Equipment 2	Tires & Tubes 3	Gasoline 4	Oil 5	State License Fee 6	Rate (Per Gal.) 7	Amount 8
Ala.....	\$13.50	\$1.60	\$2.85	\$5.00	\$0.50	\$12.75	\$0.06	\$30.00
Ariz.....	13.50	1.60	2.85	5.00	.50	3.50	.05	25.00
Ark.....	13.50	1.60	2.85	5.00	.50	12.54	.06½	32.50
Calif.....	13.50	1.60	2.85	5.00	.50	3.00	.03	15.00
Colo.....	13.50	1.60	2.85	5.00	.50	9.20	.04	20.00
Conn.....	13.50	1.60	2.85	5.00	.50	15.00	.02	10.00
Dela.....	13.50	1.60	2.85	5.00	.50	10.52	.03	15.00
Fla.....	13.50	1.60	2.85	5.00	.50	10.00	.07	35.00
Ga.....	13.50	1.60	2.85	5.00	.50	3.00	.06	30.00
Ida.....	13.50	1.60	2.85	5.00	.50	20.80	.05	25.00
Ill.....	13.50	1.60	2.85	5.00	.50	12.00	.03	15.00
Ind.....	13.50	1.60	2.85	5.00	.50	9.00	.04	20.00
Iowa.....	13.50	1.60	2.85	5.00	.50	16.97	.03	15.00
Kan.....	13.50	1.60	2.85	5.00	.50	8.08	.03	15.00
Ky.....	13.50	1.60	2.85	5.00	.50	20.70	.05	25.00
La.....	13.50	1.60	2.85	5.00	.50	17.90	.05	25.00
Me.....	13.50	1.60	2.85	5.00	.50	13.88	.04	20.00
Md.....	13.50	1.60	2.85	5.00	.50	8.43	.04	20.00
Mass.....	13.50	1.60	2.85	5.00	.50	3.00	.03	15.00
Mich.....	13.50	1.60	2.85	5.00	.50	10.08	.03	15.00
Minn.....	13.50	1.60	2.85	5.00	.50	13.56	.03	15.00
Miss.....	13.50	1.60	2.85	5.00	.50	18.95	.06	30.00
Mo.....	13.50	1.60	2.85	5.00	.50	11.00	.02	10.00
Mon.....	13.50	1.60	2.85	5.00	.50	10.00	.05	25.00
Neb.....	13.50	1.60	2.85	5.00	.50	5.00	.04	20.00
Nev.....	13.50	1.60	2.85	5.00	.50	5.00	.04	20.00
N. H.....	13.50	1.60	2.85	5.00	.50	12.71	.04	20.00
N. J.....	13.50	1.60	2.85	5.00	.50	10.53	.03	15.00
N. M.....	13.50	1.60	2.85	5.00	.50	27.60	.05	25.00
N. Y.....	13.50	1.60	2.85	5.00	.50	14.20	.03	15.00
N. C.....	13.50	1.60	2.85	5.00	.50	15.84	.06	30.00
N. D.....	13.50	1.60	2.85	5.00	.50	20.00	.03	15.00
Ohio.....	13.50	1.60	2.85	5.00	.50	10.00	.04	20.00
Okla.....	13.50	1.60	2.85	5.00	.50	10.00	.04	20.00
Ore.....	13.50	1.60	2.85	5.00	.50	5.00	.05	25.00
Penn.....	13.50	1.60	2.85	5.00	.50	10.53	.03	15.00
R. I.....	13.50	1.60	2.85	5.00	.50	12.00	.02	10.00
S. C.....	13.50	1.60	2.85	5.00	.50	15.00	.06	30.00
S. D.....	13.50	1.60	2.85	5.00	.50	17.00	.04	20.00
Tenn.....	13.50	1.60	2.85	5.00	.50	9.97	.07	35.00
Tex.....	13.50	1.60	2.85	5.00	.50	10.73	.04	20.00
Utah.....	13.50	1.60	2.85	5.00	.50	7.50	.04	20.00
Vt.....	13.50	1.60	2.85	5.00	.50	21.00	.04	20.00
Va.....	13.50	1.60	2.85	5.00	.50	12.00	.05	25.00
Wash.....	13.50	1.60	2.85	5.00	.50	3.00	.05	25.00
W. Va.....	13.50	1.60	2.85	5.00	.50	18.78	.04	20.00
Wisc.....	13.50	1.60	2.85	5.00	.50	16.00	.04	20.00
Wyo.....	13.50	1.60	2.85	5.00	.50	6.00	.04	20.00
D. C.....	13.50	1.60	2.85	5.00	.50	1.00	.02	10.00
Average.....	\$13.50	\$1.60	\$2.85	\$5.00	\$0.50	\$11.63	\$0.042	\$20.75

It is assumed that the typical light car is one weighing 2,880 pounds, of 26.33 horsepower, consuming 500 gallons of gasoline at the rate of 14 miles to a gallon and covering 7,000 miles annually. The wholesale price is estimated at \$450 and the retail price 20 per cent greater or \$540.

Due to the lack of complete data, the personal property and municipal taxes paid by the light car owner are assumed to approximate the amount paid by the average car owner. All sales taxes are presumably shifted to the consumer.

These data include only direct special taxes.

Light Car During First Year's Use

Conference, as of October, 1934)

State Certificate of Title Fee	Motor Vehicle Operator's License	Personal Property Tax \$	Municipal Taxes \$	SALES TAX ³		TOTAL	
				Rate (Percent)	Amount		
\$....	\$....	\$2.96	\$3.67	....	\$....	\$72.83	Ala.
1.00	.50	7.67	8	1½ ²	8.10	69.22	Ariz.
....	....	1.40	1.55	....	....	71.44	Ark.
....	....	2.68	8	2½ ²	13.50	57.63	Calif.
1.00	.50	2.98	8	....	....	57.13	Colo.
....	5.00	5.21	7	1/10 of 1 ⁹	.54	59.20	Conn.
1.00	1.50	7	7	....	....	51.47	Dela.
1.00	....	7	.30	....	....	69.75	Fla.
....	....	1.88	8	....	....	58.33	Ga.
....	....	7	7	....	....	69.33	Ida.
....	....	1.24	4.20	2 ⁹	10.80	66.69	Ill.
.50	....	2.52	8	1 ⁹	5.40	60.87	Ind.
....	.25	7	7	2½ ⁹	10.80	66.47	Iowa
....	.25	1.80	1.04	....	....	74.37	Kan.
....	....	2.90	.96	3½ ⁹	16.20	68.51	Ky.
....	....	3.23	7	....	....	69.58	La.
....	2.00	6.00	7	....	....	65.33	Me.
1.00	3.00	4.62	7	....	....	60.50	Md.
....	2.00	7.67	7	....	....	51.12	Mass.
1.00	1.00	7	8	3 ⁹	16.20	66.73	Mich.
....	.25	7	8	....	....	52.26	Minn.
....	....	3.00	8	2 ⁹	10.80	86.20	Miss.
1.00	....	2.21	.41	½ of 1 ⁹	2.70	50.77	Mo.
1.00	....	2.60	8	....	....	62.05	Mont.
....	.50	1.83	.27	....	....	51.05	Nebr.
....	....	4.18	8	....	....	52.63	Nev.
....	3.00	4.84	8	....	....	64.00	N. H.
....	3.00	7	1.02	....	....	53.00	N. J.
....	....	7	.48	½ of 1 ⁹	2.70	79.23	N. M.
....	1.00	7	8	....	....	53.65	N. Y.
.50	....	1.69	.41	3½ ⁹	16.20	88.09	N. C.
1.00	....	7	8	....	....	59.45	N. D.
....	....	7	8	....	....	53.45	Ohio
1.00	....	7	7	1½ ⁹	5.40	59.85	Okla.
1.00	1.00	7	8	....	....	55.45	Ore.
2.00	3.00	7	8	1/10 of 1 ⁹	.54	54.52	Penn.
....	2.00	6.41	8	....	....	53.86	R. I.
....	.50	2.04	8	....	....	70.99	S. C.
....	3.00	7	8	1 ⁹	5.40	68.85	S. D.
....	2.00	.44	1.03	....	....	71.89	Tenn.
....	.50	1.44	8	....	....	56.12	Tex.
....	.25	2.68	8	2½ ⁹	10.80	64.68	Utah
....	4.50	7	8	....	....	68.95	Vt.
1.00	.50	1.39	1.92	....	....	65.26	Va.
....	1.00	3.12	8	½ of 1 ⁹	2.70	58.27	Wash.
1.00	1.00	8	7	2¾ ^{9,10}	14.85	79.08	W. Va.
....	.25	7	8	....	....	59.70	Wisc.
1.00	....	4.04	8	....	....	53.49	Wyo.
1.00	3.00	2.95	7	....	....	41.40	D. C.
\$1.00	\$1.59	....	....	....	....	\$62.72	

¹ Paid through the manufacturer. (3% of the factory wholesale price)

² Paid through the manufacturer.

³ One cent per gallon.

⁴ One cent per quart.

⁵ Paid through the retailer.

⁶ Calculations based on the Bureau of Public Roads Special 1932 Study

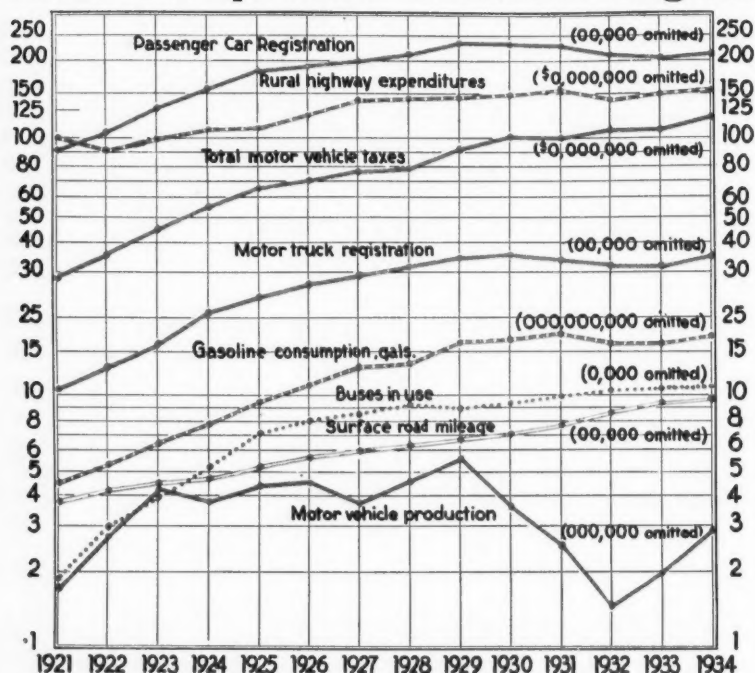
⁷ None reported to Bureau of Public Roads.

⁸ Negligible amount.

⁹ Retailers gross income or gross sales tax.

¹⁰ Consumers sales tax.

Motor Transportation Continues Progress



23% of All Metal-Working Equipment Used in Motor Industry

(Figures from a survey by "American Machinist")

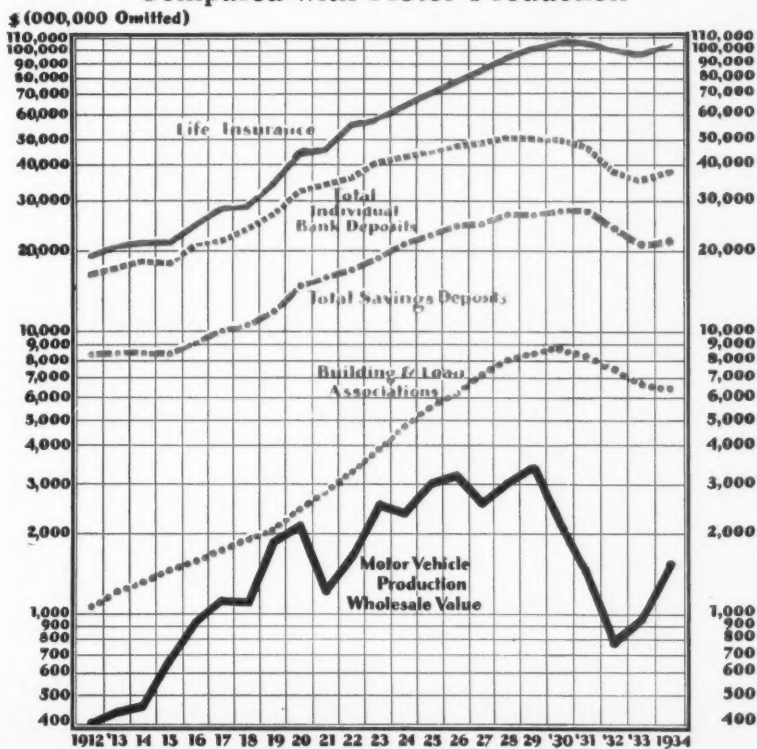
Industrial Division	Number	Per Cent
Motor Vehicles	120,641	9.0
Motor Vehicles Bodies and Parts	192,412	14.3
Total Motor Vehicle Industry	313,053	23.3
Agricultural Implements	14,911	1.1
Aircraft, Aircraft Engines and Parts	9,603	0.7
Construction, Mining and Oil-Well Equipment	17,235	1.3
Conveying and Transmission Equipment	13,417	1.0
Domestic Electrical Appliances	15,376	1.1
Industrial Electrical Equipment	104,153	7.8
Engines, Turbines and Water Wheels	20,791	1.5
Fabricated Metal Products	439,863	32.7
Food Machinery	15,696	1.2
Foundry Products	15,719	1.2
Metal-Working Machinery and Accessories	56,353	4.2
Office Equipment	21,828	1.6
Printing, Pulp and Paper Machinery	9,920	0.7
Pumps, Fans and Compressors	15,497	1.2
Railroad Equipment and Repairs	97,488	7.2
Special Tools, Dies and Machines	33,621	2.5
Textile Machinery and Parts	19,411	1.4
Machinery Not Otherwise Classified	111,621	8.3
Total Machine Tools	1,345,556	100.0

Motorists Pay One Out of Every Eight Tax Dollars



Motor user taxes in 1934 were \$1,200,107,729 while taxes from all sources—Federal, state and local—were approximately \$9,500,000,000.

Growth in Savings Bank Deposits and Life Insurance Compared with Motor Production



One out of Six

Sales and Service Workers Is Automotive



One Out of Every Six Dollars in Retail and Service Trades Payroll Comes from Automotive Trades

(Figures from "Census of American Business," 1933, by U. S. Census Bureau)

	No. of Es- tablishments	Sales (000 omitted)	Pro- prietors ¹	EMPLOYEES		PAYROLL	
				Full- Time	Part- Time	Part- Time (000 omitted)	Full and Part- Time ² (000 omitted)
WHOLESALE							
Automotive Products.....	6,304	\$ 874,269	3,601	54,106	1,939	\$ 1,032	\$ 82,094
Petroleum and its Prod.....	28,455	2,292,960	4,553	108,979	5,370	2,630	173,813
Total Automotive.....	34,759	3,167,229	8,154	163,085	7,309	3,662	255,907
Total All Wholesale.....	164,170	32,151,373	89,420	1,096,977	125,916	59,871	1,714,109
Percent Automotive.....	21.2	9.8	9.1	14.9	5.8	6.1	14.9
RETAIL							
Motor Vehicle Dealers.....	30,646	2,127,720	33,823	190,691	12,671	6,276	204,818
Access. Tire and Battery Dealers.....	16,027	225,970	15,626	25,341	3,543	1,386	29,596
Filling Stations.....	170,404	1,531,724	156,451	143,391	28,421	10,035	151,938
Motorcycle-Bicycle Dealers	1,560	9,786	1,694	1,064	279	119	1,153
Garages.....	86,454	519,827	101,175	71,904	20,299	8,949	76,216
Other Automotive.....	312	4,222	317	598	170	80	825
Total Automotive.....	305,403	4,419,249	309,086	432,989	65,383	26,845	464,546
Total All Retail.....	1,526,119	25,037,225	1,574,341	2,703,325	730,327	245,998	2,910,445
Percent Automotive.....	20.0	17.7	19.6	16.0	8.9	10.9	15.9
SERVICE							
Cartage and Trucking ³	23,102	174,875	25,196	39,291	20,478	10,850	57,301
Delivery Service.....	577	8,550	583	2,960	2,006	330	4,130
Brake Repair, Relining and Adjustment Shops.....	241	1,940	235	400	55	27	530
Auto Paint Shops.....	1,694	5,734	2,009	1,211	773	403	1,624
Auto Radiator Shops.....	1,157	3,539	1,306	602	244	152	784
Tire Repair Shops.....	578	1,174	637	169	54	25	164
Auto Top and Body Repair	3,636	17,778	4,276	4,046	1,875	1,097	5,381
Auto Laundries.....	733	2,061	821	773	581	194	658
Auto Rental Service.....	381	5,420	274	1,214	216	131	1,583
Garages (Storage).....	2,123	14,197	2,173	3,619	518	238	3,806
Parking Lots.....	3,152	12,827	2,915	3,123	870	267	3,743
Tourist Camps.....	5,846	8,483	7,921	1,705	785	206	1,157
Total Automotive.....	43,220	256,578	48,346	59,113	28,455	13,290	80,861
Total All Service.....	443,217	1,725,114	482,463	356,190	149,825	64,459	437,917
Percent Automotive.....	9.7	14.9	10.0	16.6	19.0	21.6	18.5
Total Automotive.....	383,382	4,831,781⁴	365,586	655,187	101,147	44,427	801,314
Total All Business.....	2,133,506	27,348,284⁴	2,146,224	4,156,492	1,006,068	370,328	5,062,471
Percent Automotive.....	18.0	17.6	17.0	15.8	10.0	12.0	15.9

(¹) Proprietors and firm members actively engaged in business.

(²) Does not include compensation of proprietors and firm members.

(³) Term "Cartage and Trucking" does not include transportation companies engaged primarily in long distance trucking.

(⁴) Includes total automotive retail and service business plus retail sales by wholesale establishments. The total sales by wholesale establishments shown above cannot be added to total retail and service sales because duplications would result.

1,121,745 Persons Engaged in Automotive Distributing and Service Trades

Wholesale, Retail and Service Trades

(Figures from Census of American Business, U. S. Census Bureau, Calendar Year 1933)

	Establish- ments	Sales ¹ (Thousands)	Pro- prietors ²	NUMBER OF EMPLOYEES		PAYROLL	
				Full- Time	Part- Time (Thousands)	Part- Time (Thousands)	Full and Part-Time (Thousands)
Ala.....	4,683	\$48,325	4,428	7,493	1,000	\$299	\$7,488
Ariz.....	1,812	17,061	1,839	2,409	418	178	3,136
Ark.....	4,105	38,595	3,833	5,936	761	237	6,104
Calif.....	26,530	387,549	25,401	50,512	9,537	4,614	70,106
Colo.....	4,649	50,338	4,541	7,680	1,160	515	8,951
Conn.....	4,485	76,765	4,096	9,941	1,541	819	13,364
Del.....	754	13,019	633	1,624	209	83	1,897
D. of C.....	863	39,409	621	5,793	349	176	7,060
Fla.....	6,546	68,455	6,265	10,343	1,263	452	8,604
Ga.....	6,870	73,127	6,434	11,793	1,277	381	12,318
Idaho.....	1,799	19,560	1,761	2,216	416	190	2,754
Ill.....	21,326	279,233	19,985	38,757	7,550	3,489	51,553
Ind.....	12,164	122,780	11,515	16,752	3,090	1,249	19,574
Iowa.....	12,799	110,054	11,401	14,848	2,911	1,028	16,292
Kan.....	9,931	78,328	8,794	12,036	2,103	715	13,170
Ky.....	6,073	57,048	6,044	9,287	1,311	425	9,574
La.....	4,299	49,579	3,777	9,949	1,216	454	11,054
Me.....	2,957	36,687	3,170	4,505	689	324	5,521
Md.....	4,091	64,400	4,130	10,369	1,300	493	10,964
Mass.....	9,795	177,681	8,574	24,834	3,374	1,740	33,307
Mich.....	15,309	212,111	14,796	26,671	4,599	1,808	32,128
Minn.....	10,886	114,320	10,015	15,355	2,685	1,160	18,823
Miss.....	3,423	31,284	3,195	5,294	708	209	5,157
Mo.....	14,075	153,183	13,314	23,318	3,413	1,950	27,871
Mont.....	2,112	25,075	1,856	2,986	568	282	3,770
Nebr.....	7,134	67,499	6,659	9,292	1,630	580	9,620
Nev.....	477	6,192	430	672	164	90	1,051
N. H.....	1,664	20,940	1,707	2,367	352	158	2,904
N. J.....	10,565	161,435	10,426	20,525	3,172	1,764	28,152
N. M.....	1,558	13,135	1,506	1,911	334	128	2,194
N. Y.....	25,955	477,245	24,968	61,943	7,474	4,488	88,095
N. C.....	8,298	87,708	8,241	11,682	1,462	467	12,166
N. D.....	2,846	24,472	2,333	3,376	453	173	3,988
Ohio.....	22,297	284,722	21,566	38,241	6,265	2,845	48,579
Okla.....	9,798	87,579	9,459	13,217	1,720	582	14,491
Ore.....	4,305	48,689	4,702	6,205	1,160	555	8,279
Pa.....	22,316	289,569	22,314	43,063	6,168	2,808	51,144
R. I.....	1,558	27,751	1,529	3,538	603	309	4,653
S. C.....	4,103	40,739	3,980	5,821	1,041	267	4,293
S. D.....	3,204	25,364	2,879	3,403	529	191	3,947
Tenn.....	5,174	64,298	5,240	9,947	1,239	406	10,314
Tex.....	23,300	234,720	21,609	36,383	4,652	1,534	38,344
Utah.....	1,613	20,053	1,500	2,797	432	174	3,233
Vt.....	1,467	15,843	1,510	2,200	419	188	2,584
Va.....	7,315	72,374	7,174	11,122	1,747	626	12,364
Wash.....	6,559	77,551	6,352	10,539	2,017	967	14,063
W. Va.....	4,055	43,629	4,153	5,812	978	440	6,649
Wis.....	11,040	114,212	10,508	14,911	3,468	1,307	17,957
Wyo.....	1,089	13,668	1,055	1,637	229	110	2,054
Not Segregated	3,321	12,474	3,368	3,707	.....	.....	9,348
Total.....	383,347	\$4,675,827³	365,586	655,012	101,147	\$44,427	\$801,006

(¹) Excluding all sales of establishments classified as wholesale although most wholesale firms sell at retail as well as wholesale, in order to avoid duplication by counting same products twice—as wholesale and as retail sales.

(²) Including firm members actively engaged in business.

(³) Retail sales by wholesale automotive (\$67,239,000) and wholesale petroleum firms (\$88,715,000) have not been included in state or national totals.

4,117,000 Persons Supported by Federal and State Highway Employment in July 1934

(Source: U. S. Bureau of Public Roads, as of July 1934)

Road construction and maintenance ¹	549,203
Industrial or materials labor (estimated) ²	769,000
Administrative and supervisory.....	54,000
Total workers (local road employment excluded).....	1,372,203
Persons Supported, Assuming Family of Three.....	4,117,000

¹—Project pay roll names exceed men reported by 30 to 70 percent, depending upon weather and job requirements.

²—Estimate of workers producing and transporting materials and equipment for highway construction.

549,203 Employed Directly on State Highway Systems in July 1934

Workers on Local Roads Have Not Been Estimated

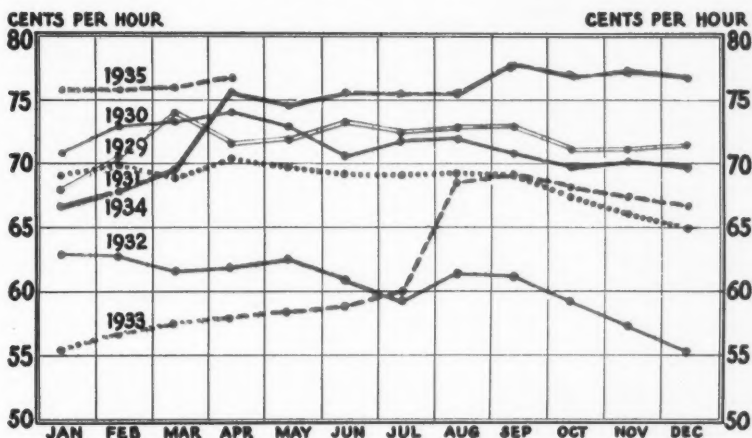
Workers		Workers		Workers		Workers	
Ala.....	7,846	Kan.....	10,317	N. H.....	5,136	Tenn.....	10,266
Ariz.....	3,292	Ky.....	8,658	N. J.....	5,005	Texas.....	32,477
Ark.....	8,197	La.....	4,243	N. M.....	6,467	Utah.....	5,098
Calif.....	16,051	Me.....	11,498	N. Y.....	21,422	Vt.....	4,612
Colo.....	6,004	Md.....	7,089	N. C.....	14,564	Va.....	20,857
Conn.....	5,975	Mass.....	7,049	N. D.....	11,539	Wash.....	5,787
Dela.....	2,099	Mich.....	14,099	Ohio.....	20,426	W. Va.....	6,775
Fla.....	6,612	Minn.....	11,827	Okl.....	13,253	Wis.....	25,504
Ga.....	11,610	Miss.....	7,692	Ore.....	6,016	Wyo.....	4,292
Idaho.....	4,353	Mo.....	15,319	Pa.....	70,890	Alaska.....	280
Ill.....	21,766	Mont.....	9,236	R. I.....	2,124	D. C.....	1,213
Ind.....	16,540	Nebr.....	9,246	S. C.....	4,992	Hawaii.....	910
Iowa.....	12,019	Nev.....	1,772	S. D.....	8,889		
							Total... 549,203

Employment and Wages in Motor Vehicle Factories Located in United States

Parts, Body and Tire Workers Have Not Been Included

Year	Average No.	Wages	Year	Average No.	Wages
1921.....	186,000	\$299,098,780	1928.....	402,138	\$712,567,699
1922.....	253,104	395,707,531	1929.....	427,459	775,478,810
1923.....	318,098	579,002,686	1930.....	325,124	647,588,438
1924.....	329,563	547,215,700	1931.....	270,464	397,207,034
1925.....	361,442	649,668,829	1932.....	229,800	282,929,203
1926.....	375,281	657,724,859	1933.....	190,027	233,507,619
1927.....	324,665	585,823,733	1934.....	273,163	371,947,239
				Gain over 1933	43.8%
					59.2%

Average Hourly Wage Rates Exceed 1929 Peak



Figures cover factory employees of motor vehicle manufacturers who are members of the Automobile Manufacturers Association. Comparable figures for entire industry are not available for period from 1929 to date.

Explanation of Employment Figures on Pages 48 and 49

¹—Figures from 1933 U. S. Census of Manufactures, including motor vehicle, body, parts, tire industries and petroleum refining. 1934 employment in motor vehicle manufacturing increased 44% over 1933; affiliated industries probably also show increases, though not as large.

²—Figures from 1933 Census of American Business, U. S. Census Bureau. Includes 365,586 proprietors and firm members actively engaged in business, and 101,147 part-time employees.

³—Source: U. S. Bureau of Public Roads, as of May 1935. No estimates are available on employment on local roads. Federal and state employment in July 1934 was 549,203.

⁴—Employment estimated by subtracting trucks registered on farms from 1934 total truck registration as compiled by U. S. Bureau of Public Roads and assuming that one full-time truck driver is required for each of remaining trucks, i.e. city-owned. No additional employees have been estimated for for-hire trucks nor any helpers on delivery vehicles on the assumption that this would compensate for those city-owned trucks where the driver does not work full-time. Bus drivers estimated by assuming two drivers per revenue bus and one driver for each school bus.

⁵—Includes 7,076 workers not classified by states.

⁶—No attempt has been made to estimate by states number of raw-material workers, taxicab drivers and chauffeurs—approximately 550,000 in the United States.

Motor Transport Creates

5,065,000 Employed Directly and Indirectly.

States	Motor Veh. Mfg., and Petrol. Refg. 1933 ¹	Sales and Servicing 1933 ²	Federal & State Road Constr. 1935 ³	Truck and Bus Drivers 1934 ⁴	Total
Alabama	899	12,921	6,763	23,903	44,486
Arizona	10	4,666	3,918	14,803	23,397
Arkansas	632	10,530	4,023	26,143	41,328
California	16,248	85,451	9,391	202,554	313,644
Colorado	1,339	13,381	2,996	12,856	30,572
Connecticut	838	15,578	4,238	51,561	72,215
Delaware	15	2,466	925	6,438	9,844
Florida	30	17,871	4,803	45,376	68,080
Georgia	1,675	19,504	12,720	47,359	81,258
Idaho	0	4,393	2,366	12,114	18,873
Illinois	12,499	66,292	12,203	135,480	226,474
Indiana	24,958	31,357	4,893	100,774	161,982
Iowa	345	29,160	8,149	45,530	83,184
Kansas	3,626	22,933	8,833	43,069	78,461
Kentucky	1,783	16,642	6,445	31,773	56,643
Louisiana	4,628	14,943	3,372	38,568	61,511
Maine	0	8,364	2,135	27,749	38,248
Maryland	2,929	15,799	4,045	35,724	58,497
Massachusetts	4,017	36,782	5,179	94,860	140,838
Michigan	169,362	46,066	6,332	88,085	309,845
Minnesota	1,194	28,055	10,328	70,011	109,588
Mississippi	10	9,197	5,148	22,102	36,457
Missouri	6,784	40,045	9,796	90,753	147,378
Montana	298	5,410	2,667	17,627	26,002
Nebraska	38	17,581	6,533	31,413	55,565
Nevada	0	1,266	1,522	5,491	8,279



es Employment for Millions

This is 12% of Those Gainfully Employed

States	Motor Veh. Mfg., and Petrol. Refg. 1933 ¹	Sales and Servicing 1933 ²	Federal & State Road Constr. 1935 ³	Truck and Bus Drivers 1934 ⁴	Total
New Hampshire.	10	4,426	5,523	18,241	28,200
New Jersey . . .	15,518	34,123	2,820	119,538	171,999
New Mexico . . .	86	3,751	2,494	11,403	17,734
New York	14,954	94,385	11,775	254,463	375,577
North Carolina .	545	21,385	14,649	41,392	77,971
North Dakota . .	0	6,162	4,491	9,995	20,648
Ohio	71,462	66,072	9,707	122,464	269,705
Oklahoma	5,084	24,396	5,653	52,396	87,529
Oregon	77	12,067	3,035	33,000	48,179
Pennsylvania . . .	25,742	71,545	44,323	175,938	317,548
Rhode Island . . .	251	5,670	1,042	17,355	24,318
South Carolina . .	130	10,842	3,496	15,539	30,007
South Dakota . . .	14	6,813	8,161	9,518	24,506
Tennessee	46	16,426	5,691	30,300	52,463
Texas	17,917	62,644	22,030	178,325	280,916
Utah	177	4,722	2,913	13,656	21,468
Vermont	0	4,129	1,247	4,085	9,461
Virginia	987	20,043	12,795	40,812	74,637
Washington	149	18,908	3,442	48,832	71,331
West Virginia . . .	519	10,943	5,062	21,456	37,980
Wisconsin	14,017	28,887	8,273	70,708	121,885
Wyoming	1,068	2,922	1,273	10,217	15,480
Dist. of Col. . . .	0	6,763	783	17,913	25,459
U. S. Total . . .	422,910	1,121,753 ⁵	330,401	2,639,662	4,514,726

Total incl. raw material workers, etc., not segregable by states \$5,065,000

For footnotes see page 47.

Raw Materials Used in

Automobile Industry is Largest User of Steel

	Percent Used by Motor Industry	Rank as Consumer
Strip.....	55.1%	First
Bars.....	42.3%	First
Sheets.....	42.4%	First
Wire products.....	9.8%	First
Malleable iron.....	57.0%	First
Alloy steel†.....	53.3%	First
Steel, all forms....	21.0%	First

Amount Used in Manufacturing and Repairs

*Steel (gross tons).....	4,000,000
Production of finished rolled steel.....	19,000,000
Percent used in automobile industry.....	21.0%
*Steel for highway construction (750,000 gross tons).....	4.0%
Iron, malleable (tons).....	245,000
Production.....	430,000
Per cent used in motor vehicles.....	57%
Gray iron (tons).....	575,470
Production.....	4,400,000
Per cent used in motor vehicles.....	13%
Rubber (long tons).....	340,000
Total consumption in United States.....	453,000
Per cent used in motor vehicles.....	75.0%
Plate glass (square feet).....	66,196,885
Production of polished plate glass.....	94,566,978
Per cent used in motor vehicles.....	70%
Lumber, hardwood (board feet).....	220,000,000
Production of hardwoods.....	2,707,000,000
Per cent used in motor vehicles.....	8%
Leather, upholstery (square feet).....	8,650,000
Production of upholstery leather.....	21,380,000
Per cent used in motor vehicles.....	40%
Aluminum (tons).....	12,000
Total consumption in United States.....	80,000
Per cent used in motor vehicles.....	15.0%
Copper (tons).....	81,000
Total consumption in United States.....	450,000
Per cent used.....	18.0%
Tin (long tons).....	8,000
Total deliveries in United States.....	60,300
Per cent used in motor vehicles.....	13.3%

*Figures from Iron Age. Does not include tonnage sold by steel jobbers to repair shops or steel sold to automobile manufacturers in the form of bolts, nuts and rivets. †Figures from "Steel."

in Automobile Industry, 1934

Automobile Industry Largest Purchaser of Several Commodities

	Percent Used by Motor Industry	Rank as Consumer
Gasoline	89%	First
Lubricating oil	59%	First
Rubber	75%	First
Plate glass	70%	First
Nickel	30%	First
Lead	39%	First
Mohair	40%	First
Upholstery leather	40%	First

	Amount Used in Manufacturing and Repairs
Lead (tons)	184,000
Total consumption in United States	473,800
Per cent used in motor vehicles	38.8%
Zinc (tons)	44,000
Total consumption in United States	361,000
Per cent used in motor vehicles	12.2%
Nickel (pounds)	12,450,000
Total sales in United States	42,000,000
Per cent used in motor vehicles	29.6%
‡Cotton (bales)	487,850
United States mill consumption	5,413,000
Per cent used in tire and motor vehicle manufacturing	9.1%
Mohair (pounds)	4,000,000
Production	10,000,000
Per cent used in automobile upholstery	40%
Lumber, softwood (board feet)	290,000,000
‡Cloth, upholstery (yards)	29,650,000
‡Paint and lacquer (gallons)	9,650,000
‡Hair and padding (pounds)	34,845,000
<hr/>	
Gasoline (gallons)	15,344,511,000
Domestic consumption total	17,207,316,000
Per cent used by motorists (estimated)	89%
Lubricating oil (gallons)	460,000,000
Domestic consumption total	776,496,000
Per cent used by automobile industry	59%
Antifreeze solutions (gallons)	36,275,000
Brake lining (asbestos and cotton) linear feet	84,200,000

‡United States motor vehicle manufacturing use only.

Inter-American Highway Usable to Mexico City



This map shows degree of completion of the Inter-American Highway from Nueva Laredo, near the Texas border, to the South American countries.

1,355,296 Miles of Rural Mail Routes

45% of Total Highway Mileage in United States

(Figures from U. S. Post Office Department, as of June 1, 1935)

State	No. of Routes	Mileage	State	No. of Routes	Mileage	State	No. of Routes	Mileage
Ala....	890	37,642	La....	353	14,344	Ohio....	1,723	68,715
Ariz....	42	1,550	Maine...	409	12,036	Okla....	1,029	43,159
Ark....	677	25,271	Md....	303	11,314	Ore....	228	10,112
Calif....	487	20,865	Mass...	265	8,088	Pa....	1,669	56,166
Colo....	335	15,249	Mich...	1,253	52,583	R. I....	43	1,263
Conn....	241	7,025	Minn...	1,346	53,606	S. C....	630	25,494
Del....	73	3,037	Miss...	817	34,005	S. D....	626	25,099
D. of C.	5	203	Mo....	1,683	60,250	Tenn...	1,230	43,986
Fla....	270	13,401	Mont...	196	6,669	Texas...	1,749	73,667
Ga....	1,141	53,539	Neb....	876	37,142	Utah...	59	1,874
Hawaii..	2	55	Nev....	4	160	Vt....	290	8,024
Idaho...	212	6,768	N. H....	202	6,198	Va....	861	29,345
Ill....	1,927	71,985	N. J....	238	8,579	Wash...	374	15,092
Ind....	1,241	58,517	N. M....	65	2,805	W. Va...	425	11,402
Iowa...	1,662	63,615	N. Y....	1,457	48,622	Wis....	1,333	49,585
Kan....	1,339	59,977	N. C....	980	40,822	Wyo....	31	1,210
Ky....	823	26,024	N. D....	744	29,157			
						Total 34,858 1,355,296		

Billion Dollars Taxes Paid by the Petroleum Industry in 1934

(Figures from American Petroleum Industries Committee)

	Taxes	Tax per Barrel
State gasoline taxes.....	\$565,027,000	\$.615
Federal gasoline taxes.....	170,109,269	.187
Real and Personal Property taxes.....	130,000,000	.144
Income taxes (Federal, state and city).....	50,000,000	.055
Severance taxes (State, county, and municipal).....	25,000,000	.028
Federal lubricating oil taxes.....	24,843,489	.028
Federal pipe line transportation taxes.....	10,008,692	.011
Municipal gasoline taxes.....	10,000,000	.011
State reg. and license fees on tank trucks, etc.	10,000,000	.011
Capital stock tax.....	9,955,000	.011
Federal and state excise taxes on tank trucks and other vehicles.....	7,952,380	.009
Federal taxes on new tires for old tank trucks, etc.....	4,132,660	.005
Corporation franchise, stock, and mercantile licensing and inspection taxes.....	3,620,000	.005
State inspection fees, drilling permit fees, etc.	3,620,000	.005
Federal excise taxes on crude petroleum processed.....	810,695	.001
Federal taxes on parts and accessories for tank trucks.....	633,120	.001
State sales taxes on tires for tank trucks, etc.	437,270	.001
Other taxes.....	20,000,000	.022
Total.....	\$1,046,149,575	\$1.15

NOTE: Figures on federal gasoline, lubricating oil and crude petroleum processing taxes are exact. All other taxes calculated on best data now available but ALL OF THESE CALCULATIONS ARE PRELIMINARY.

Special Motor Taxes Allotted to State Highways Cover 68% of Current Income

(Figures from U. S. Bureau of Public Roads)

Sources of State Highway Income	Amount 1933	Percent of Current Income	Percent of Total Funds
State tax and appropriation from state treasury.....	\$27,713,323	3.77	3.63
Special motor taxes:			
Motor-vehicle fees.....	\$176,817,169		
Gas tax.....	321,413,833		
Miscellaneous income.....	498,231,002	67.67	65.19
Federal aid.....	14,836,074	2.01	1.94
Emergency funds.....	175,243,882	23.80	22.93
Transfer from local units.....	10,400,000	1.41	1.36
Total current income.....	9,864,789	1.34	1.29
Bonds and notes.....	\$736,289,070	100%	.....
Total income including loans.....	27,975,062	.....	3.66
	\$764,264,132	.....	100%

State Highway Income and Funds Available for State Supervision of State

(Source: U. S. Bureau of Public Roads;)

CURRENT INCOME FROM STATE SOURCES

State	End of 1933 Fiscal Year	Total	State Road Tax Levies	Appropriations from General Funds	State Motor- Vehicle Registration Fees, Etc. ¹	State Motor-fuel Taxes ¹	Miscellaneous Income ¹
Ala. ¹ ...	9/30	6,153,018			2,149,816	3,756,501	246,701
Ariz....	6/30	2,821,438	473,343		646,766	1,649,310	52,019
Ark. ¹ ...	12/31	6,738,808			1,659,946	4,821,420	257,442
Calif....	6/30	31,562,258		4,348,537	3,363,498	23,850,223	
Colo....	12/31	4,354,986	386,616		215,199	3,663,800	89,371
Conn....	6/30	11,276,860			6,600,106	4,499,861	176,893
Del....	6/30	3,048,916		1,000,000	996,996	1,035,084	16,836
Fla....	12/31	6,087,870			2,055	6,062,535	23,280
Ga....	6/30	8,934,072			1,120,670	7,789,922	23,480
Idaho....	12/31	2,730,461	331,370		134,821	2,246,807	17,463
Ill....	12/31	35,146,033		23,918	15,272,375	19,742,259	107,481
Ind. ¹ ...	6/30	9,238,305			2,430,146	6,610,143	198,016
Iowa....	11/30	15,200,083			9,908,970	5,290,411	702
Kansas..	12/31	7,063,083			1,356,499	5,693,303	13,281
Ky....	3/31/34	12,598,746	732,427		2,623,365	8,373,863	869,091
La....	12/31	11,307,352			4,162,778	6,433,731	710,843
Me....	12/31	6,996,376			2,755,380	4,010,284	230,712
Md....	9/30	11,562,911		2,701,610	2,385,241	6,209,572	266,488
Mass....	11/30	13,461,611			4,215,766	8,876,859	368,986
Mich....	6/30	23,250,827			8,054,406	14,691,209	505,212
Minn....	12/31	13,994,141	1,555,899		5,648,967	6,558,682	230,593
Miss. ¹ ...	12/25	2,753,594			107,671	2,628,748	17,175
Mo....	12/31	18,603,196	8,789		8,889,151	9,027,717	677,539
Mont....	6/30	2,602,575				2,578,440	24,135
Neb....	12/31	5,829,777		50,000	576,630	5,203,147	
Nev....	6/30	1,078,046	91,299		288,085	674,978	23,684
N. H....	1/31/34	4,934,405		109,100	2,011,270	2,649,664	164,371
N. J. ¹⁰ ...	12/31	20,080,893	3,025,673	3,000,000	9,765,111	4,216,152	73,957
N. M....	12/31	2,677,592	82,257		287,209	2,214,755	93,371
N. Y....	12/31	15,008,291		6,527,000	4,876,183	3,598,959	6,149
N. Car. ¹ ...	6/30	19,068,219			4,791,347	14,165,026	111,846
N. Dak. ¹¹ 11/30		1,464,949			109,554	1,210,000	145,395
Ohio....	12/31	19,345,939			3,910,795	15,191,525	243,619
Okl....	12/31	7,048,304			1,781,182	5,136,506	130,616
Ore....	12/31	8,224,691			2,249,436	5,954,053	21,202
Penn....	12/31	60,066,698			28,288,095	25,617,590	16,161,013
R. I....	6/30	3,963,296			2,150,389	1,770,277	42,630
S. Car. ¹⁴ ...	6/30	4,078,861			1,126,707	2,524,179	427,975
S. Dak. ¹ ...	12/31	2,295,080			421,012	1,861,094	12,974
Tenn....	6/30	9,968,732		266,819	2,207,234	6,792,667	702,012
Texas....	8/31	19,701,577			4,664,915	14,616,311	420,351
Utah....	12/31	3,331,369	347,616		833,865	2,120,346	29,542
Vt....	6/30	4,697,357	311,796	472,618	2,014,567	1,817,815	80,561
Va....	6/30	16,192,724			4,928,314	10,921,100	343,310
Wash....	3/31/34	10,635,247			2,167,054	8,320,008	148,185
W. Va. ¹ ...	12/31	10,676,289		1,800,000	3,806,333	5,069,956	
Wis....	6/30	20,915,420			8,190,052	12,610,980	114,388
Wyo....	12/31	2,009,123	66,636		671,242	1,056,061	215,184
Total.....		540,780,399	7,413,721	20,299,602	176,817,169	321,413,833	14,836,074

¹—In several cases balances reported at end of previous year have been revised by correction of errors and other adjustments.

²—In combining this income with the corresponding income for local roads (Table F-4) to derive the total rural road income, transfers of funds between state and local authorities should be omitted in order to avoid duplication in the total income.

³—These columns differ from apparently similar columns in Tables MV-2 and G-1 because of differences in fiscal year and delays in transfer of funds, and because of the fact that in many states money allotted for local road purposes is first placed to the credit of the state highway department.

⁴—In this column are included receipts from bridge tolls in the following states: Alabama, \$222,731 Arkansas \$257,306 Kentucky, \$750,503 Louisiana, \$59,191 Maine, \$230,712 Tennessee, \$342,019.

ay Receipts, 1933

State Highway and Bridge Work Under State Highway Departments

Roads; Compiled From Reports of State Authorities)

INCOME FROM OTHER THAN STATE SOURCES						
Regular Funds	Federal-Aid Receipts Advances to Trust Fund	Transfers from Local Government Sources ¹	Income from Bond Sales, Notes, and Other Loans	Total Income Including Loans ²	Balance from Previous Fiscal Year ³	Total Funds Available
4,610,341		1,000		10,764,359	218,437	10,982,796
2,867,811				5,769,249	60,953	5,770,202
3,698,973	300,000	324		10,738,105	-2,825,023	7,913,082
7,108,491		180,485		38,851,234	9,716,572	48,567,806
4,259,993				8,614,979	1,355,989	9,970,968
569,499		300,044		12,146,403	3,510,748	15,657,151
401,968				3,450,884	1,028,754	4,479,638
3,392,260		144,238		9,624,368	533,409	10,157,777
5,065,020		280,876		14,279,968	1,731,178	16,011,146
2,424,346	350,000	74,781		5,579,588	53,836	5,633,424
7,271,724		165,069		42,582,826	15,116,275	57,699,101
1,222,564		50,065		10,510,934	6,595,143	17,106,077
3,827,575			810,612	19,838,270	3,083,602	22,921,872
4,371,657	750,000	145,515		12,330,255	2,761,684	15,091,939
4,147,548	400,000	162,420		17,308,714	717,774	18,026,488
3,272,289	300,000	4,391	10,000,347	24,884,379	2,884,859	27,769,238
2,094,568	900,000	1,102,916	956,100	12,049,960	1,245,958	13,295,918
1,424,870		148,456		13,136,237	2,274,749	15,410,986
3,375,467		508,910		17,343,988	6,383,852	23,727,840
5,556,785		498,191		29,305,803	277,627	29,583,430
2,869,343	1,000,000			17,863,484	1,669,815	19,533,299
4,018,691	500,000	197,894		7,470,179	196,947	7,667,126
4,803,345	750,000	36,627	5,085,927	29,279,095	8,113,818	37,392,913
4,978,390		25,306		7,606,271	38,814	7,645,085
4,951,073	750,000	18,271		11,549,121	448,410	11,997,531
2,581,636		19,691	300,000	3,979,373	-189,887	3,789,486
585,494		255,144	1,900,000	7,675,043	762,878	8,437,921
2,448,426	300,000		155,789	22,985,108	16,457,221	39,442,329
3,590,135	600,000	87,948	500,000	7,455,675	522,918	7,978,593
7,846,713		324,479	6,705,600	29,885,083	44,001,813	73,886,896
3,614,325				22,682,544	610,847	23,293,391
2,813,916	300,000	209,188	100,000	4,888,053	575,891	5,463,944
5,596,013	300,000	132,757		25,374,709	2,846,118	28,220,827
4,587,717	300,000	136,524		12,072,545	1,156,361	13,228,906
2,723,724		194,941	1,460,687	12,604,043	1,291,855	13,895,898
6,590,181	1,500,000	780,991		68,937,870	17,626,867	86,564,737
802,182				4,765,478	765,337	5,531,315
1,310,767		27,223		5,416,851	3,432,459	8,849,310
2,369,683	300,000			4,964,763	227,491	5,192,254
4,018,219				13,986,951	8,308,574	22,295,525
12,220,823		1,286,473		33,208,873	11,468,434	44,677,307
2,816,474				6,147,843	276,380	6,424,223
773,503		113,651		5,584,511	947,040	6,531,551
2,742,243		49,983		18,984,950	2,687,131	21,672,081
3,247,679		262,847		14,145,773	-183,751	13,962,022
2,631,328	300,000			13,607,617	3,177,519	16,785,136
4,617,261		1,898,338		27,431,019	6,759,184	34,190,203
2,110,849	500,000	40,832		4,660,804	136,168	4,796,972
175,243,882	10,400,000	9,864,789	27,975,062	764,264,132	190,859,528	955,123,660

¹-Includes income of state bridge commission.

²-Date of ending fiscal year changed from February 28 to December 31. Figures cover 12-month period.

³-For nine-month period only. Date of ending fiscal year changed from September 30 to June 30.

⁴-State-assumed county bonds issued for state highways.

⁵-For 11-month period only. Date of ending fiscal year changed from January 31 to December 25.

⁶-Income relating to port of New York Authority, Delaware River Bridge Commission, Free Bridge Commission, and Bayonne Bridge included in previous years but omitted here.

⁷-Date of ending fiscal year changed from December 31 to November 30. Figures cover 12-month period.

⁸-Loan, Bank of North Dakota.

⁹-Includes \$5,683,603 from Federal Unemployment Relief Fund.

¹⁰-For six-month period only. Date of ending fiscal year changed from December 31 to June 30.

State Highway Expenditures, 1933

(Source: U. S. Bureau of Public Roads)

EXPENDITURES FOR STATE HIGHWAY PURPOSES

State	End of 1933 Fiscal Year	Total Expendi- tures	Capital Invest. in Const. and Right of Way ¹	Mainte- nance ²	Equipment and Machinery ³	Miscell. Expenses	Interest on Bonds ⁴
Ala.....	9/30	9,410,919	5,201,978	1,477,367	243,804	398,205	2,089,565
Ariz.....	6/30	5,238,999	4,038,350	917,830	248,507	34,312	.....
Ark.....	12/31	6,734,810	3,922,348	1,583,902	251,000	.....	977,500
Calif.....	6/30	35,685,891	26,791,392	6,123,072	207,890	.....	2,573,537
Colo.....	12/31	7,970,373	6,341,683	1,315,526	71,007	37,061	205,096
Conn.....	6/30	8,554,430	5,193,485	2,756,162	—198,960	803,743	.....
Del.....	6/30	2,987,812	2,234,214	272,654	35,715	.....	445,229
Fla.....	12/31	9,082,455	7,144,421	1,731,485	206,549	.....	.....
Ga.....	6/30	13,348,202	11,687,723	927,610	732,869	.....	.....
Idaho.....	12/31	4,714,027	3,607,036	923,220	85,683	.....	98,088
Ill.....	12/31	36,261,042	26,466,507	3,468,871	183,254	382,850	5,759,560
Ind. ⁵	6/30	8,799,620	5,082,817	3,558,886	157,917	.....	.....
Iowa.....	11/30	16,054,254	8,955,958	2,210,876	458,099	1,338	4,427,983
Kan.....	12/31	11,754,946	8,154,046	2,738,315	862,585	.....	.....
Ky.....	3/31/34	17,787,539	11,471,863	3,974,750	1,817,954	38,416	484,556
La.....	12/31	16,500,308	9,729,960	2,151,804	287,430	437,101	3,894,013
Me.....	12/31	7,172,612	4,088,914	1,869,199	—59,079	81,256	1,192,322
Md.....	9/30	10,496,926	7,164,700	2,306,640	77,852	143,124	804,610
Mass.....	11/30	14,854,621	9,686,373	4,786,683	87,405	55,160	239,000
Mich.....	6/30	22,273,361	16,380,620	4,792,741	.....	.....	1,100,000
Minn.....	12/31	14,592,258	9,465,259	3,035,056	143,597	.....	1,948,346
Miss. ⁶	12/25	7,550,807	5,636,385	1,751,644	162,778	.....	.....
Mo.....	12/31	31,176,365	22,646,395	2,692,414	1,402,956	.....	4,434,600
Mont.....	6/30	7,479,576	6,250,857	1,092,057	69,162	.....	67,500
Nebr.....	12/31	11,112,129	8,819,234	2,205,317	87,578	.....	.....
Nev.....	6/30	3,705,948	3,109,348	547,188	.....	23,184	26,228
N. H.....	1/31/34	5,907,446	2,881,776	2,694,927	68,643	.....	262,100
N. J.....	12/31	18,436,502	12,021,544	2,260,219	—98,386	.....	4,253,125
N. M.....	12/31	6,338,989	4,713,170	1,172,660	.....	43,144	410,015
N. Y.....	12/31	40,910,076	25,041,520	9,204,280	1,337,276	.....	5,327,000
N. C.....	6/30	11,337,448	4,733,996	2,137,942	—342,101	112,128	4,695,483
N. D.....	11/30	4,809,119	3,704,439	1,060,938	25,492	18,250	.....
Ohio.....	12/31	20,673,429	11,443,906	9,154,771	74,752	.....	.....
Okla.....	12/31	14,523,814	12,479,126	1,830,034	160,322	54,332	.....
Ore.....	12/31	8,796,981	5,363,339	2,109,030	—122,785	154,952	1,292,445
Penn.....	12/31	59,021,248	43,761,057	13,664,563	4,682,711	1,059,987	3,852,930
R. I.....	6/30	4,268,209	3,140,640	857,381	23,271	3,857	243,060
S. C. ⁷	6/30	4,380,169	1,560,383	640,861	8,806	147,274	2,022,845
S. D.....	12/31	4,408,286	3,151,852	1,235,535	5,798	15,101	.....
Tenn.....	6/30	14,906,587	8,131,081	1,448,235	1,252,075	73,063	4,002,133
Texas.....	8/31	39,515,514	28,702,972	10,555,211	257,331	.....	.....
Utah.....	12/31	5,607,479	1,142,029	1,156,551	—39,851	23,750	325,000
Vt.....	6/30	4,612,253	2,935,937	1,413,347	.....	.....	262,969
Va.....	6/30	13,449,948	7,834,875	4,949,557	.....	437,656	227,850
Wash.....	3/31/34	8,911,320	6,502,456	2,208,824	175,070	24,970	.....
W. Va.....	12/31	9,861,085	4,967,921	2,333,326	156,958	.....	2,402,880
Wis.....	6/30	19,904,678	15,114,711	4,777,400	12,567	.....	.....
Wyo.....	12/31	4,170,900	3,240,572	752,729	—14,713	18,937	173,375
Total.....		666,061,710	446,841,168	138,829,660	15,246,788	4,623,151	60,520,943

¹—Includes pro rata share of administration, engineering, and materials and supplies.

²—Equipment rentals charged to construction and maintenance projects were balanced against equipment cost. In the case of seven states, Connecticut, Maine, New Jersey, North Carolina, Oregon, Utah and Wyoming, this procedure resulted in a negative item, or credit, in this column.

³—Interest on state highway bonds, with following exceptions. Interest on state-assumed county bonds (obligations assumed as reimbursement for roads now on state system) in following states: Delaware, \$329,029 Iowa (county bonds issued for state highways), \$1,347,519 Minnesota, \$605,096 Nevada, \$6,100 South Carolina, \$1,383,635 Tennessee, \$1,077,446. Interest on notes or warrants in the following states: Idaho, \$20,718 Iowa, \$80,464 Kentucky, \$100,453 Louisiana, \$434,736 South Carolina, \$176,710 Tennessee, \$2,295,250.

⁴—For nine-month period only. Date of ending fiscal year changed from September 30 to June 30.

⁵—For 11-month period only. Date of ending fiscal year changed from January 31 to December 25.

⁶—Includes expenditures on both primary and secondary state systems.

⁷—For six-month period only. Date of ending fiscal year changed from December 31 to June 30.

⁸—Includes \$562,343 expended for maintenance of secondary roads added to state system in 1933.

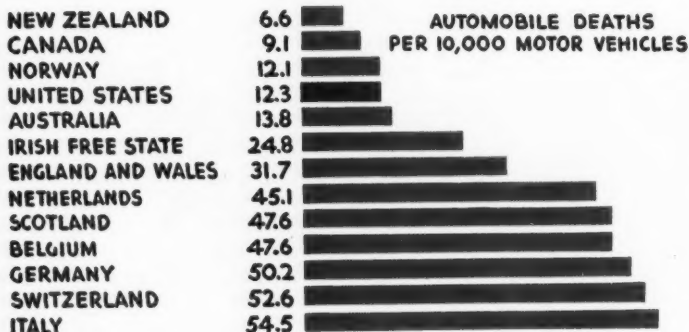
345,751 Mileage in State Highway System, 1933

State	Total Local and State (1930 latest Available)	STATE SYSTEM AS OF DECEMBER 31, 1933					Total New Surfacing 1932
		Total Rural Mileage	Total Surfaced Mileage	Total Non-surfaced Mileage	Municipal Streets Connecting State Highways	Earth Roads Improved	
Ala.....	67,907	5,552	4,110	1,442	225	26	113
Ariz.....	22,818	2,895	2,188	707	27	27	320
Ark.....	68,849	8,843	7,318	1,525	177	18	213
Calif.....	76,964	12,584	8,530	4,054	992	89	374
Colo.....	68,974	9,421	5,091	4,330	107	5	347
Conn.....	14,256	2,206	2,156	50	262	.....	95
Dela.....	3,779	11,142	1,142	.....	2	.....	142
Fla.....	30,366	8,367	5,135	3,232	456	153	159
Ga.....	102,284	8,680	4,759	3,921	301	244	599
Idaho.....	39,825	4,636	3,179	1,457	170	32	297
Ill.....	97,287	10,099	9,584	515	660	107	674
Ind.....	73,768	8,439	8,302	137	455	53	396
Iowa.....	103,328	7,834	7,424	410	961	56	284
Kan.....	132,240	8,513	5,517	2,996	469	142	674
Ky.....	61,261	17,319	5,986	1,333	2	281	914
La.....	35,553	17,628	11,672	5,956	2	143	563
Me.....	20,882	2,087	2,021	66	292	.....	61
Md.....	14,847	3,757	3,757	.....	127	.....	110
Mass.....	18,802	11,795	1,795	.....	2	.....	95
Mich.....	81,106	8,668	8,147	521	545	.....	281
Minn.....	110,661	16,766	6,676	90	234	616	534
Miss.....	61,957	6,094	5,267	827	166	97	191
Mo.....	110,540	12,226	10,748	1,478	2	1,151	2,154
Mont.....	67,072	8,093	3,464	4,629	157	119	751
Nebr.....	93,907	9,177	6,650	2,527	593	74	760
Nev.....	23,576	4,007	2,221	1,786	27	.....	315
N. H.....	12,034	2,948	2,911	37	84	2	37
N. J.....	17,393	11,872	1,732	140	4	12	33
N. M.....	47,776	10,370	3,152	7,218	155	52	435
N. Y.....	82,375	13,930	12,249	1,681	726	51	824
N. C.....	53,796	10,148	9,199	949	843	66	588
N. D.....	106,846	7,604	5,607	1,997	70	475	981
Ohio.....	85,106	11,845	11,788	57	1,530	.....	440
Okla.....	120,879	17,420	5,400	2,020	4	171	957
Ore.....	51,617	14,751	4,137	614	4	78	238
Pa.....	90,867	12,304	11,023	1,281	1,534	.....	492
R. I.....	2,739	1,086	678	408	50	.....	73
S. C.....	57,726	5,954	5,767	187	166	.....	396
S. D.....	120,271	5,961	4,941	1,020	62	224	343
Tenn.....	67,953	7,212	6,473	739	262	98	237
Texas.....	188,539	19,737	13,817	5,920	1,294	910	1,995
Utah.....	23,655	4,293	2,472	1,821	329	.....	273
Vt.....	15,031	1,013	1,013	.....	87	.....	41
Va.....	59,957	18,974	7,673	1,301	218	133	834
Wash.....	43,881	3,551	3,316	235	254	20	203
W. Va.....	34,799	14,448	3,575	873	239	98	163
Wis.....	81,784	10,104	9,500	604	759	403	377
Wyo.....	41,233	3,398	2,583	815	84	32	296
Total....	3,009,066	103,457,51	271,845	73,906	16,153	6,258	21,672

¹—Includes municipal streets, not segregated. ²—Municipal street mileage on state highway systems not reported but municipal streets mileage connecting Federal Aid System given as follows: Delaware 15, Kentucky 197, Louisiana 115, Massachusetts 249, Missouri 92. ³—Addition of 4,356 miles to state trunk system occurred Jan. 1, 1934, and hence is excluded in 1933. ⁴—Municipal street mileages on the state system were reported in these three states as follows: New Jersey 437, Oklahoma 160, Oregon 244. These mileages were not reported by types and are included in the totals shown in the first column of figures. ⁵—Excludes 46,826 miles of county roads under control and supervision of State Highway Commission for Maintenance and Construction. ⁶—Excludes 2,046 miles of secondary state highways taken from county roads for state construction and maintenance, but includes 244 miles of municipal streets not segregated from rural roads by types. ⁷—Data as of May 15, 1933, and excludes 20,171 miles of secondary system. ⁸—Excludes 37,028 miles of secondary system of highways turned over to the State Highway Commission on July 1, 1932 for maintenance and construction but not made part of state highway system. ⁹—Excludes 29,098 miles of county-district roads taken by law into the state road system as secondary system on July 1, 1933. ¹⁰—Includes 1,509 miles of municipal streets not segregated by types which if deducted results in 344,242 as the net mileage of rural roads on state systems. See notes 2 and 4.

World Motor Vehicle Accidents

(Chart from "Accident Facts" by National Safety Council)



(Source: Data supplied by U. S. Census Bureau)

Motor Transportation Safest on Basis of Occupant Mileage

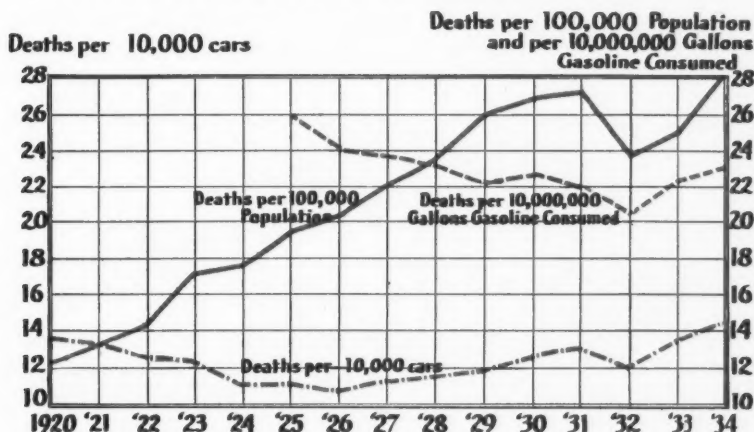
Kind of Transportation	Mileage	Deaths	Death Rate per 100,000 Miles
I. Occupant Mileage			
1. Motor vehicles	350,900,000,000	17,660	5.0
2. Steam railways	23,019,000,000	292	1.3
3. Airplanes (civil aviation only)	415,000,000	324	78.1
4. <i>Scheduled</i>	273,000,000	17	6.2
5. <i>Non-scheduled</i>	142,000,000	307	216.1
II. Passengers Mileage Only			
6. Motor vehicles	350,900,000,000	17,660	5.0
7. Steam railways	16,368,000,000	45	0.3
8. Airplanes (scheduled flying only)	198,800,079	8	4.0
III. All Deaths (Occupant Mileage)			
9. Motor vehicles	350,900,000,000	31,363 ¹	8.9
10. Steam railways	23,019,000,000	5,214	22.6
11. Airplanes	415,000,000	336	81.0

Explanatory Note: The above table is presented with a full realization that the available data are inadequate to measure exactly the relative safety of different kinds of transportation. Due to the great public interest in the question, however, the National Safety Council has used all facts obtainable in arriving at certain approximations which, it is believed, give a fairly adequate comparison. Changes will be made if and when more accurate data bearing on the question can be secured.

Source: Approximations of the National Safety Council, based on data from the U. S. Census Bureau, U. S. Bureau of Air Commerce, Interstate Commerce Commission, and other sources for 1933.

¹Includes Non-occupants.

1934 Fatal Motor Accidents Increase



Motor Vehicle Fatalities

(Source: "Accident Facts" by the National Safety Council)

Year	NUMBER OF DEATHS					TOTAL DEATH RATES		
	TOTAL	Primary Auto	Railway Collisions	Street Car Collisions	Motor-cycle Accidents	Per 100,000 Population	Per 100,000 Cars**	Per 10,000,000 Gallons Gas
1923.....	18,394	16,432	*	*	335	16.5	120.5	†
1924.....	19,380	17,565	1,127	413	274	17.1	109.2	†
1925.....	21,877	19,610	1,413	556	298	19.0	109.0	25.5
1926.....	23,431	20,945	1,727	515	244	20.1	105.9	23.9
1927.....	25,796	23,196	1,832	520	318	21.8	110.9	23.5
1928.....	27,996	24,937	2,142	569	348	23.3	113.8	23.0
1929.....	31,215	28,282	2,046	530	357	25.7	117.3	22.0
1930.....	32,929	30,228	1,830	481	390	26.7	123.5	22.3
1931.....	33,675	31,197	1,714	435	329	27.1	129.8	21.9
1932.....	29,451	27,363	1,522	316	250	23.6	121.6	20.7
1933.....	31,363	29,323	1,437	318	285	25.0	132.0	22.0
1934.....	36,000(est.)	Not available	.....	.....	.....	28.5	145.0	23.2

Source: Calculated from data of the U. S. Census Bureau and the U. S. Bureau of Public Roads.

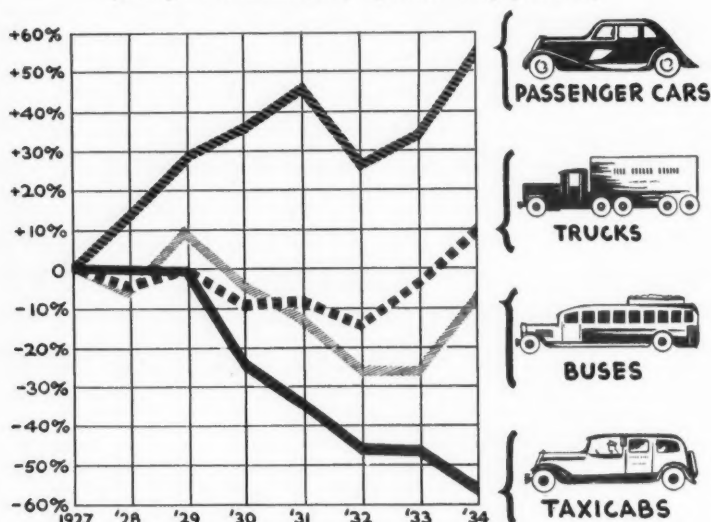
*Until 1924 the U. S. Census Bureau's classification of automobile accidents included only cases where the automobile was the heavier vehicle involved—shown in the above table as "primary auto." Motor vehicle accidents are now understood to include also collisions with heavier vehicles, and motorcycle accidents.

†Gasoline consumption figures partially estimated for 1925 to 1929. Data prior to 1925 inadequate for computing rates.

**Rates are computed on the basis of registered motor vehicles, including motorcycles. Unregistered autos, trucks, and motorcycles are omitted.

Commercial Vehicle Accident Trend Better Than for Private Automobiles

(Chart from "Accident Facts," by National Safety Council)



Automobile Insurance in the United States, 1934

(Compiled by The Insurance Year Book Service, The Spectator Company)

	Net Premiums	Losses Paid†	Ratio of Losses Paid to Premiums Written
Automobile Liability	\$227,982,550	\$147,162,203	64.5
Automobile Collision	11,493,404	6,837,009	59.5
Automobile Property Damage..	64,656,866	32,301,262	50.0
Automobile (Miscellaneous)¹ . .	14,046,215	6,983,528	49.7
Fire and Theft*	92,641,495	40,635,540	43.9
Totals	\$410,820,530	\$233,919,542	56.9

¹—Representing automobile premiums and losses of casualty companies writing complete automobile coverage and of casualty companies which write fire, theft, earthquake and windstorm.

*—Fire Insurance Companies transact all branches of automobile insurance with the exception of liability. A great portion of this business, however, is fire and theft insurance.

†—Includes investigation and adjustment of claims but does not include agents' commissions, home office and operating expenses.

1934 Parts, Accessory and Tire Business

(Parts figures from Motor and Equipment Manufacturers Association;
Tire figures from The Rubber Manufacturers Association, Inc.)

Original Equipment of parts, tires, etc.		\$421,159,000
Parts, units and accessories.	\$341,660,000	
Rubber tires and tubes.	\$79,499,000	
Replacements of parts, tires, etc.		\$752,497,000
Parts, units, accessories and service equipment.	\$514,000,000	
Rubber tires, tubes and repair materials.	\$238,497,000	
Total Parts and Tire Business		\$1,173,656,000

Sales Value of Automobile Tire Shipments

YEAR	Pneumatic Casings	Inner Tubes	Solids and Cushions	Auto Tire Sundries and Fabrics	Total
1929	\$580,329,000	\$82,931,000	\$17,203,000	\$27,495,000	\$707,958,000
1930	430,313,000	62,097,000	9,344,000	19,882,000	521,636,000
1931	334,159,000	48,878,000	5,411,000	14,887,000	403,305,000
1932	246,418,000	31,246,000	3,205,000	10,736,000	291,605,000
1933	251,068,000	34,566,000	2,845,000	12,141,000	300,620,000
1934	264,558,000	36,068,000	1,902,000	15,366,000	317,894,000

The above figures represent actual figures reported to The Rubber Manufacturers Association, Inc. by tire manufacturers and others engaged in the production of the above items. It is generally believed they represent at least 98% of the industry's sales.

Rubber Tire Shipments

(Figures from The Rubber Manufacturers Association, Inc.)

	Number of Units			
	1931	1932	1933	1934
High Pressure Casings.	7,455,443	5,170,680	5,256,100	5,272,853
Balloon Casings	42,605,248	35,080,300	38,837,611	41,413,699
Solids and Cushions* ..	209,445	135,726	158,738	192,940
Inner Tubes	50,021,469	37,910,600	41,390,590	45,045,494

*Includes Industrial truck, tractor and trailer tires.

Capital Invested in Automobile Manufacturing*

Year	Cars	Trucks	Total
1919	\$784,660,761	\$230,782,577	\$1,015,443,338
1920	897,953,600	306,425,000	1,204,378,600
1921	1,134,166,000	289,334,000	1,423,500,000
1922	1,154,103,335	302,546,620	1,456,649,954
1923	1,281,364,300	290,358,100	1,571,722,400
1924	1,373,372,426	317,677,686	1,691,050,112
1925	1,503,290,062	384,738,748	1,888,028,810
1926	1,646,589,759	442,908,566	2,089,498,325
1927	1,643,989,116	436,668,548	2,080,657,664
1928	1,578,021,207	387,289,301	1,965,310,508
1929	1,518,714,814	437,972,847	1,956,687,661
1930	1,442,275,653	438,532,580	1,880,808,233
1931	1,215,200,000	380,600,000	1,595,800,000
1932	1,118,600,000	371,300,000	1,489,900,000
1933	1,012,548,000	336,418,000	1,348,966,000
1934	959,112,000	322,200,000	1,281,312,000

*The above figures represent net tangible assets of United States motor vehicle manufacturers, and do not include parts, accessory, body and tire manufacturers.

Automobile Instalment Financing

(Figures from National Association of Sales Finance Companies)

Item No.	PASSENGER CARS				Com- mercial Cars	Pass. and Com.
	1929	1932	1933	1934	1934	1934
Average Note Purchased						
1 New cars.....	595*	546*	516*	\$519	\$859	\$551
2 Used cars.....	296*	241*	220*	216	386	227
3 All cars.....	....	....	....	327	629	369
Average Loss Per Repossessed Car						
4 New cars.....	....	....	....	\$65	\$53	\$64
5 Used cars.....	....	....	....	44	70	45
6 All cars.....	63*	59*	42*	49	61	50
Percentage of Repossessions						
7 New cars with recourse.....	....	....	....	2.0%	7.7%	3.0%
8 New cars non-recourse.....	....	....	....	2.7%	5.6%	2.8%
9 New cars total.....	3.0%	5.7%	2.8%	2.3%	7.3%	2.9%
10 Used cars with recourse.....	....	....	....	7.3%	14.0%	8.0%
11 Used cars non-recourse.....	....	....	....	6.0%	8.9%	6.1%
12 Used cars total.....	5.6%	13.1%	7.8%	6.8%	13.3%	7.2%
13 Skips Per 1,000 Transactions.....	5.2	5.5	4.6	2.1	3.3	2.2
Installment Paper Ratios						
14 Over 12 months, new.....	....	....	....	32.6%	59.9%	37.6%
15 Over 12 months, used.....	....	....	....	12.2%	31.5%	14.6%
16 Over 12 months, total.....	14.9%	21.9%	12.9%	24.3%	50.4%	28.6%
17 Under 33 1/3% down payment, new.....	....	....	....	10.7%	38.4%	17.0%
18 Under 40% down payment, used.....	....	....	....	19.0%	28.8%	20.5%
19 Under above % down payment, total.....	8.0%	13.7%	11.6%	14.2%	35.4%	18.4%
20 New cars % of total.....	54.0%	36.5%	41.6%	36.4%	51.0%	44.0%
21 New car paper % of total.....	70.0%	56.6%	62.5%	59.2%	69.9%	64.5%
Recourse on Used Car Paper						
22 Companies taking all with recourse.....	38.0%	29.1%	26.6%	33.3%	54.6%	....
23 Companies taking part with recourse.....	56.2%	60.8%	65.6%	52.8%	36.4%	....
24 Companies taking all or part recourse.....	94.1%	89.9%	92.2%	86.1%	91.0%	....
Per Cent Sold on Instalments						
25 New cars.....	62.6%	54.6%	56.8%	54.6%	52.6%	54.4%
26 Used cars.....	65.1%	47.0%	56.8%	58.1%	55.7%	57.9%
27 Total.....	64.0%	48.6%	56.8%	56.8%	54.0%	56.6%
Per Cent Trade-Ins						
28 On sales of new cars.....	72.5%	88.7%	85.8%	77.7%	55.8%	74.7%
29 On sales of used cars.....	45.5%	47.7%	51.5%	47.8%	40.5%	47.3%
30 All trade-ins % of new cars sold.....	127.1%	175.6%	177.5%	159.6%	91.3%	150.4%
31 Used cars sold % of new cars sold.....	128.6%	185.9%	178.0%	171.2%	87.6%	160.1%
32 Used cars junked % of trade-ins.....	9.2%	14.3%	12.9%	7.1%	10.4%	8.1%

* Includes some commercial vehicles.

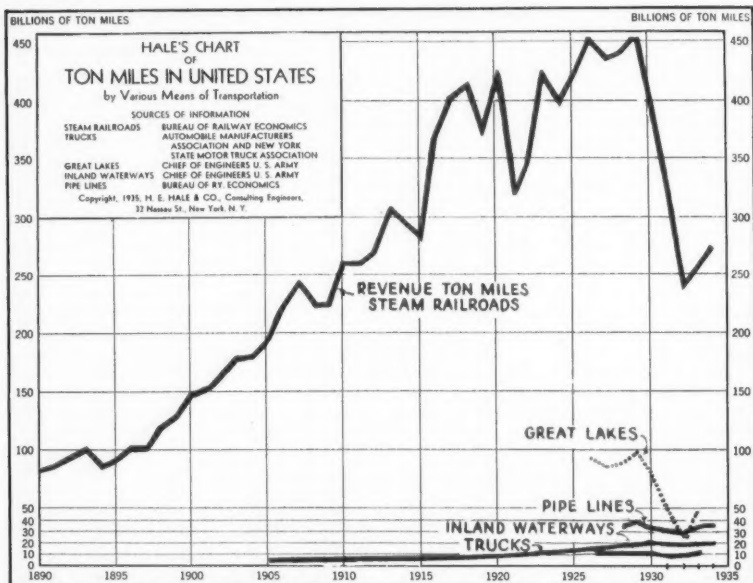
NOTE: Items 25 to 32, Automobile dealer data obtained through courtesy of National Automobile Dealers' Association by questionnaire submitted to its members.

35,977 Car Dealers in United States

(Figures from the Chilton Company, as of June 1, 1935)

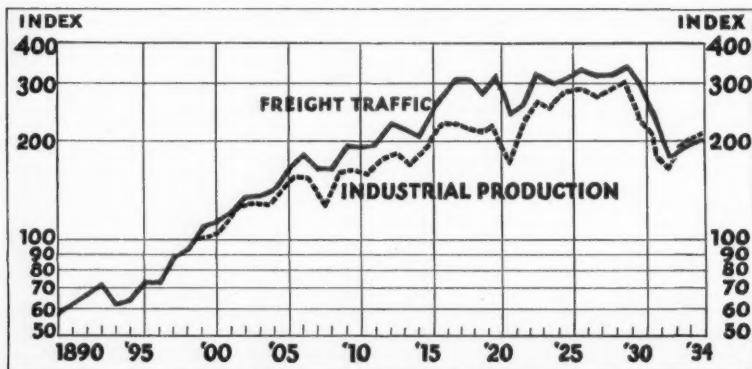
STATES	Total Pass. Car Dealers	Total Truck Dealers	Independent Repair Shops	Total Retail Outlets (Duplication Eliminated)	Wholesalers		
					Parts	Accessories	Total
Alabama	312	209	512	859	56	31	57
Arizona	110	65	214	332	19	14	22
Arkansas	323	242	555	916	42	30	44
California	1,650	1,056	6,157	8,422	389	246	471
Colorado	379	236	644	1,096	49	46	66
Connecticut	504	235	718	1,352	75	68	97
Delaware	61	32	86	166	8	7	9
Dist. of Col.	65	27	114	198	20	15	26
Florida	399	239	906	1,322	81	61	101
Georgia	505	362	777	1,319	64	38	69
Idaho	225	140	323	544	29	24	21
Illinois	2,161	1,184	3,727	6,198	262	235	326
Indiana	1,146	534	2,078	3,221	143	122	174
Iowa	1,416	918	1,779	3,353	111	103	145
Kansas	1,083	743	1,416	2,614	97	80	119
Kentucky	587	384	725	1,371	51	47	67
Louisiana	295	218	526	865	52	41	61
Maine	347	176	578	938	33	36	44
Maryland	401	194	497	978	46	40	62
Massachusetts	993	463	1,589	2,770	168	155	220
Michigan	1,626	1,008	2,523	4,349	162	128	201
Minnesota	1,328	912	1,839	3,312	81	55	105
Mississippi	319	245	364	713	33	25	39
Missouri	1,055	610	2,017	3,123	126	116	171
Montana	321	215	427	768	29	27	36
Nebraska	990	728	1,236	2,339	61	56	79
Nevada	111	74	93	212	5	4	6
New Hampshire	202	111	343	545	23	23	30
New Jersey	945	507	2,179	3,333	126	113	175
New Mexico	134	78	186	329	14	13	19
New York	2,530	1,400	5,762	8,719	393	391	585
N. Carolina	577	394	858	1,490	74	61	87
N. Dakota	537	354	513	1,095	24	22	28
Ohio	2,072	1,131	3,398	5,806	297	228	386
Oklahoma	666	415	959	1,677	83	68	96
Oregon	342	213	975	1,397	59	44	81
Pennsylvania	2,853	1,513	5,004	8,196	290	279	410
Rhode Island	138	76	308	485	27	19	31
S. Carolina	288	193	421	674	34	27	39
S. Dakota	418	279	593	1,065	18	20	25
Tennessee	350	239	748	1,106	63	51	73
Texas	1,572	1,098	3,077	4,533	236	219	286
Utah	163	94	331	499	22	23	29
Vermont	177	119	344	544	17	17	21
Virginia	582	422	1,056	1,648	59	46	72
Washington	535	319	1,751	2,386	98	75	137
West Virginia	441	274	688	1,177	54	48	69
Wisconsin	1,569	969	1,756	3,446	99	89	131
Wyoming	174	119	161	386	10	9	10
Total	35,977	21,766	63,831	108,727	4,412	3,735	5,658

Ton-Miles of Freight by Methods of Transportation

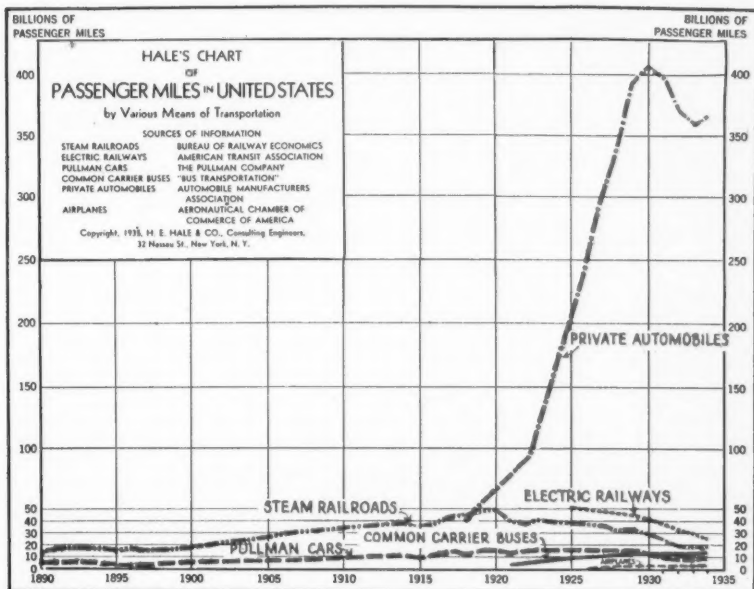


If all the ton-milage hauled by motor trucks, shown by the curve second from the bottom on the chart, were transferred to the steam railroads, it would increase the rail ton-milage by only a negligible amount.

Rail Traffic Fluctuates with General Industrial Activity (Indexes from "The Annalist")



Passenger Miles by Methods of Transportation



48,000 Motor Trucks Operated by Railroads and Subsidiaries, 1934

110% Increase in Direct Ownership in Two Years

(Figures from Simmons-Boardman Publishing Company)

Year	Terminal Transfer Service	Intercity Service	Store Door Delivery Service	Total No. in Service
1932.....	5,500	1,000	5,500	12,000
1933.....	6,750	1,150	15,100	23,000
1934.....	7,175	1,275	16,875	*25,307

*In addition 23,000 trucks are owned and operated indirectly by railroads.

3,064,800 Carloads Automotive Freight

Automotive Proportion of all Railroad Carloads

Products of	All Traffic, Carloads (I. C. C. Statistics)	Of which Auto Mfg. and Use and Highway Building Produces (See table opposite)	
		Carloads	Per Cent
Manufactures and Miscellaneous..	6,833,558	2,258,005	*33.0%
Forests and Mines.....	9,589,631	806,800	†8.4%
All other Carload Traffic.....	4,800,254	.....	.....
Total carload traffic originated.	21,223,443	3,064,805	14.4%

*In 1931—28.8%; 1932—34.4%; 1933—32.7%. †In 1931—7.6%; 1932—8.4%; 1933—8.0%.

Rail Carloads of Automobiles, Trucks, Parts and Tires, 1934

(From Railroad Commodity Reports)

	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
EASTERN LINES				
N. Y. C. Lines (B. & A. R. R.—C. C. C. & St. L. Lines—M. C. R. R.—N. Y. C. R. R.—P. & L. E. R. R.).....	133,609	44,802	178,411	\$11,836,477
G. T. W. R. R.....	64,275	6,343	70,618	2,978,996
D. T. & L. R. R.....	38,480	3,513	41,993	1,609,482
P. M. R. R.....	29,543	3,914	33,457	1,921,804
Penna. R. R.....	20,047	17,317	37,364	3,064,740
Erie R. R.....	16,869	28,202	45,071	3,024,378
B. & O. R. R.....	13,446	22,683	36,129	2,339,767
Wabash Ry.....	7,429	32,418	39,847	2,893,363
Ann Arbor R. R.....	2	1,280	1,282	77,216
Reading Co.....	6,475	13,592	20,067	588,242
C. R. R. of N. J.....	22	4,590	4,612	103,079
A. C. & Y. Ry.....	6,105	115	6,220	250,014
N. & W. Ry.....	4,225	5,777	10,002	979,352
D. & T. S. L. R. R.....	3,405	8,008	11,413	221,961
N. Y. C. & St. L. R. R.....	2,989	8,705	11,694	649,682
B. & M. R. R.....	1,431	15,128	16,559	791,490
C. & O. Ry.....	1,078	8,261	9,339	653,058
N. Y. S. & W. R. R.....	713	5,979	6,692	254,331
D. L. & W. R. R.....	552	16,034	16,586	1,098,393
C. I. & L. R. R.....	466	2,068	2,534	72,969
C. & E. I. Ry.....	439	4,520	4,959	221,754
L. V. R. R.....	424	22,529	22,953	1,511,701
W. & L. E. Ry.....	291	7,391	7,682	204,192
N. Y. N. H. & H. R. R.....	201	12,025	12,226	554,451
D. & H. R. R.....	164	7,399	7,563	176,969
W. Md. Ry.....	148	5,113	5,261	175,360
Miscellaneous.....	158	28,845	29,003	822,824
Total Eastern Lines.....	252,986	336,551	689,537	\$39,076,045
SOUTHERN LINES				
Southern Ry.....	14,074	11,009	25,083	1,741,348
C. N. O. & T. P. Ry.....	1,543	11,217	12,760	1,106,342
M. & O. R. R.....	230	1,377	1,607	132,733
A. G. S. R. R.....	99	2,226	2,325	116,384
N. O. & N. E. R. R.....	46	1,290	1,336	68,581
G. S. & F. Ry.....	.....	2,375	2,375	130,739
Ill. Cent. R. R.....	7,157	18,291	25,448	2,340,089
C. of Ga. Ry.....	13	2,390	2,403	119,892
L. & N. R. R.....	4,067	7,820	11,887	1,096,654
A. C. L. Ry.....	415	5,400	5,815	493,705
S. A. L. Ry.....	345	5,028	5,373	457,701
Norfolk Southern R. R.....	266	1,885	2,151	164,346
G. M. & N. R. R.....	221	2,102	2,323	212,559
Ga. R. R.....	20	635	655	24,218
N. C. & St. L. Ry.....	17	3,739	3,756	275,864
Clinchfield R. R.....	.....	3,973	3,973	207,197
Miscellaneous.....	44	5,055	5,099	253,766
Total Southern Lines.....	28,557	85,512	114,069	\$8,942,182

(Continued on following page)

Pay Railroads \$365,021,000 in 1934

Automotive Freight 3,064,800 Carloads

	Carloads*		Carloads*
Motor vehicles, parts, tires..	472,505	Crude rubber	9,800
Gasoline	1,140,000	Asphalt for roads	54,000
Iron and steel	153,000	Brick, vitrified	45,000
Coal	51,000	Cement for roads, bridges ..	222,000
Crude petroleum	49,000	Gravel, sand, stone for roads.	620,000
Lubricating oil	73,000	Miscellaneous, such as non-	
Lumber	23,000	ferrous metals, paints, up-	
Road and fuel oil	41,500	holstery materials	111,000

Total Automotive Freight Carloads

Rail Revenues from Automotive Freight.

*Partly estimated by Automobile Manufacturers Association.

	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
WESTERN LINES				
Mo. Pac. R. R.	17,456	17,175	34,631	\$3,224,041
St. L., Brownsville & M. Ry.	6	985	991	123,893
Int. Gt. Northern Ry.	37	4,012	4,039	357,528
N. O. T. & M. Ry.	27	850	877	27,926
T. & P. Ry.	1,969	11,241	13,210	882,309
C. M. St. P. & P. R. R.	17,350	9,951	27,301	2,350,069
C. & N. W. Ry.	15,239	14,144	29,383	1,827,415
C. St. P. M. & O. Ry.	381	6,526	6,907	287,900
So. Pac. Co. (Pac. Lines) ..	13,623	13,687	27,310	4,067,229
T. & N. O. R. R.	284	8,581	8,865	980,077
A. T. & S. Fe Ry.	4,964	18,083	23,047	4,782,919
C. C. & S. Fe Ry.	164	2,312	2,476	264,723
P. & S. Fe Ry.	4	9,672	9,676	299,433
St. L. S. F. Ry.	5,019	3,743	8,762	821,781
St. L. S. F. & Texas Ry.	33	1,463	1,496	55,716
C. B. & Q. R. R.	3,076	9,080	12,156	1,179,426
Col. & Southern Ry.	68	529	597	30,756
M. K. T. R. R.	2,327	6,499	8,826	1,407,989
St. L. S. W. Ry.	2,327	7,441	9,768	1,387,063
C. R. I. & P. Ry.	2,056	11,196	13,252	1,682,583
C. R. I. & G. Ry.	115	3,595	3,710	94,831
K. C. S. Ry.	1,364	4,340	5,704	460,635
Union Pacific R. R.	93	18,133	18,226	3,441,131
L. A. & S. L. R. R.	666	2,323	2,989	495,660
O. S. L. R. R.	18	5,917	5,935	511,549
O. W. R. R. & Nav. Co.	23	2,466	2,489	244,753
St. J. & G. I. Ry.	640	3,530	4,170	47,228
Gt. Nor. Ry.	519	6,907	7,547	1,264,595
C. G. W. R. R.	279	5,871	6,390	516,033
M. St. P. & S. S. M. Ry.	238	2,427	2,706	259,051
Western Pac. R. R.	233	3,283	3,521	472,288
Alton R. R.	178	3,939	4,172	285,633
Nor. Pac. Ry.	56	5,486	5,664	1,091,438
La. & Ark. Ry.	42	3,209	3,265	164,759
S. P. & S. Ry.	13	2,673	2,715	143,088
D. & R. G. W. R. R.	6	5,660	5,673	607,782
M. & St. L. R. R.	69	1,699	1,705	79,470
Miscellaneous	69	13,093	13,162	659,451
Total Western Lines	90,962	251,711	342,673	\$36,825,381
Total U. S. Autos, Trucks and Parts, Including Tires	472,505	673,774	1,146,279	\$84,813,608

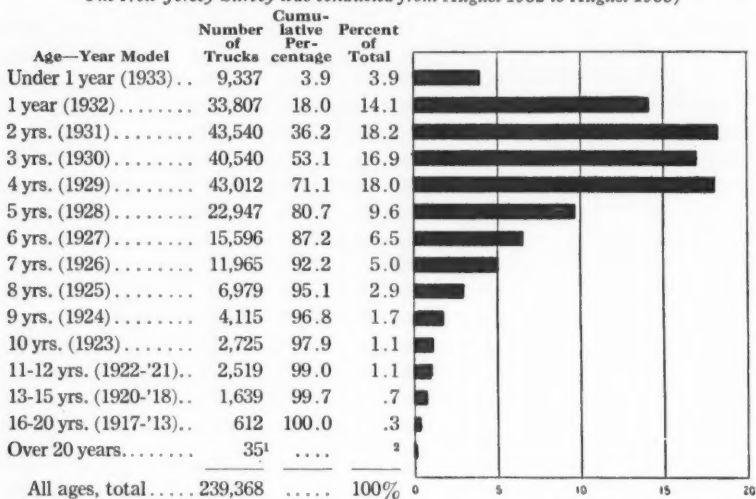
Shipments of Assembled Passenger Cars and Motor Trucks From Factories and Assembling Plants in United States, including Exports

Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat	Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat
1934.....	318,294	1,209,291	154,540	1931.....	283,858	1,050,545	85,609
1933.....	198,827	930,303	126,258	1930.....	423,486	1,412,450	99,414
1932.....	130,820	706,977	51,103	1929.....	733,631	1,958,738	199,576

The major tonnage of important steamship lines consists of automobiles and parts en route to foreign countries.

20% of Motor Trucks in N. J. Over 5 Years Old

(Figures from April 1935 Issue of "Public Roads" by U. S. Bureau of Public Roads
The New Jersey Survey was conducted from August 1932 to August 1933)

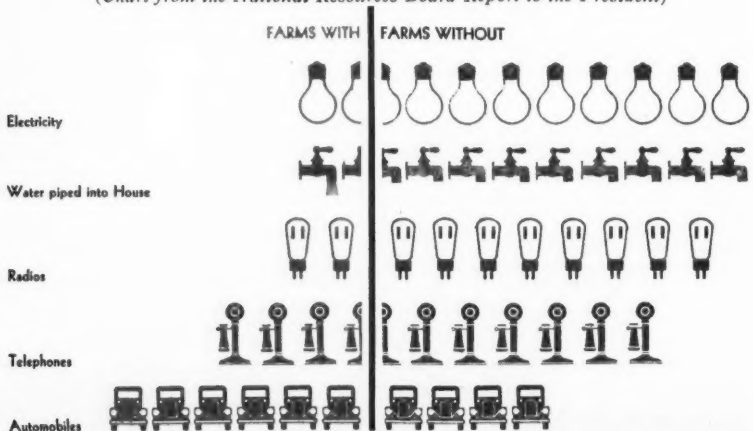


¹10 of this number were models of years prior to 1910.

²Less than 1/10 of 1 percent.

Farm Modernization in the United States

(Chart from the National Resources Board Report to the President)





Each symbol represents 10% of all farms equipped with automobiles, electricity, water, radios, and telephones.

Interstate Common Carrier Trucks 1% of Total

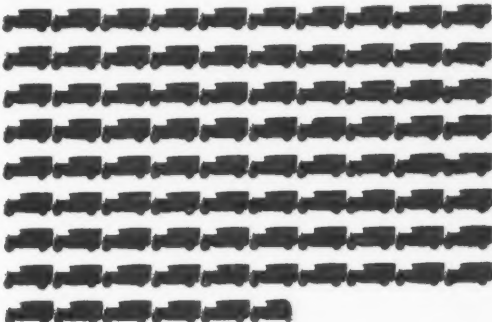
(Figures from Survey of 11 Western States by U. S. Bureau of Public Roads)

If all the trucks in use were parked in one place and classified according to type of service, each group of 100 trucks would be proportioned as shown in the diagram.

Type of Service No. of Trucks Each Truck Represents 1% or 1 out of every 100

Common Carrier { Interstate 1.05... 
Intra-state 445... 

Contract Carrier 87... 

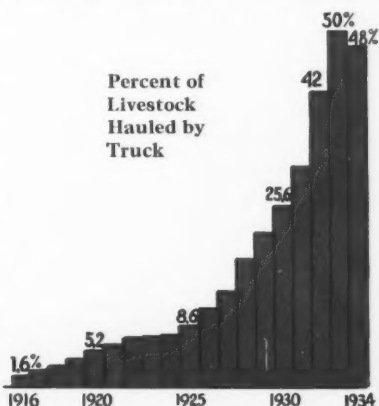
Privately Owned and Operated 858... 

Motor Trucks Haul 48% of Live Stock Receipts, 1934

(Figures from Corn Belt Farm Dailies, based on data for 17 leading markets)

	1933	1934
Total head of live-stock hauled....	30,326,951	30,124,894
Percent change from preceding year...	+30%	-0.7%
Number of truck loads.....	2,500,000	2,500,000
Truck mileage traveled.....	250,000,000	275,000,000
Length of haul....	1-500 miles	1-500 miles
Average haul....	100 miles	115 miles
Number of tons, live weight....	5,000,000	4,900,000
Total value.....	\$402,000,000	\$450,000,000
Percent of total livestock receipts by truck.....	50%	48%

Percent of Livestock Hauled by Truck



Leading Motor Vehicle Fleets in the United States

Does Not Include All Fleets With More Than 150 Vehicles

(Survey as of May, 1935 by Automobile Manufacturers Association)

Fleet Owner	No. of Trucks†	Passenger Cars‡
American Tel. & Tel.	12,970	4,060
Standard Oil Co. of N. J.	12,000	4,000
Railway Express Agency	8,454	221
Standard Oil Co. of Ind.	6,656	1,637
Borden's	6,627	1,010
National Dairy Products	6,022	736
U. S. War Department.	5,791	734
Continental Baking Co.	3,830	200
N. Y. City Dept. of Sanit.	3,007	163
Cities Service Co. (Subsid.) ..	2,800	1,200
*Mid. West Utilities Co.	2,750	.....
Standard Brands, Inc.	2,695	580
Ward Baking Company	2,329	27
Swift & Company	2,300	.....
Socony Vacuum Oil Co.	2,236	1,062
General Baking Company	2,159	79
Armour & Company	2,093	952
*Illinois Div. of Highways ..	2,000	1,468
Standard Oil Co. of Calif.	1,927	.....
Ohio Highway Department ..	1,882	441
Gulf Refining Company	1,672	1,534
*Purity Baking Corporation ..	1,645	18
U. S. Navy Department	1,644	200
*N. C. State Highway Com.	1,629	282
Calif. Dept. of Finance	1,618	1,498
National Biscuit Company	1,612	.....
The Texas Company	1,516	100
Quality Bakers of America ..	1,500	100
Jewel Tea Company	1,483	81
*N. Y. State Div. of Standards & Purchases	1,465	770
Standard Oil Co. of Ky.	1,368	436
Texas State Highway Dept.	1,340	82
*Beatrice Creamery Co.	1,278	200
Pacific Gas & Elec. Co.	1,246	720
U. S. Trucking Company	1,200	20
Virginia Dept. of Highways ..	1,200	107
*United Parcel Service	1,200	.....
Pure Oil Company	1,189	1,534
Western Dairy Products Co.	1,162	27
Atlantic Refining Company	1,159	401
Hertz Drive-ur-Self Stations ..	1,153	589
Union Oil Co. of Calif.	1,146	18
Shell Oil Company	1,099	1,008
Penn. Dept. of Highways	1,065	524
Calif. Dept. of Public Works ..	1,052	511
U. S. Dept. of Commerce	1,025	108
Shell Petroleum Corp.	1,014	1,336
Consolidated Gas Co. of N. Y.	954	478
Indiana Highway Commission	923	380
General Ice Cream Corporation ..	903	175
*Metropolitan Distributors ..	900	.....
Golden State Creamery Ltd.	880	96
*Tenn. Dept. of Highways & Public Works	869	277
Los Angeles Dept. of Water & Power	788	385
*Loose Wiles Biscuit Co.	750	.....
Firestone Tire & Rubber Co.	730	804
General Foods Sales Co.	726	403
Cudahy Packing Company	716	303
Illinois Bell Tel. Co.	704	264
Standard Oil Co. of Ohio	699	403
Michigan State Highway Dept.	654	156
Burns Brothers	640	30
American Gas & Elec. Co.	638	680
N. Y. City Fire Department ..	624	117
B. F. Goodrich Co.	622	1,375
Brinks Express Company	600	.....
American Ice Company	532	186

Fleet Owner	No. of Trucks†	Passenger Cars‡
Standard Gas & Elec. Co.	581	1,810
N. Y. State Dept. of Public Works	578	32
Sun Oil Company	564	338
National Bread Company	540	.....
Dairymen's League Coop.	535	229
Great American Tea Co.	534	50
Shell Eastern Petrol. Prod.	534	500
Florida State Road Dept.	528	85
Humble Oil & Refining Co.	525	558
Philadelphia Electric Co.	508	359
Kansas State Highway Dep.	504	205
Minnesota Dept. of Highways	502	197
Detroit Div. of Motor Transportation	490	645
Associated Oil Company	489	203
*National Refining Company ..	483	18
Consolidated Laundries Corp.	469	40
City Ice & Fuel Co.	465	.....
*U. S. Bureau of Public Roads ..	451	217
Kroger Grocery & Baking Co.	450	100
Commonwealth Edison Co.	448	279
American Stores Company	446	319
*Goodyear Tire & Rubber Co.	427	859
Hubel Ice Corporation	393	60
R. H. Macy & Company	392	10
Edison Elec. Co. of Boston ..	377	50
The Crane Company	369	746
Farm Crest Bakeries Inc.	365	.....
Los Angeles, Mech. Dept.	365	261
Marshall Field & Co.	341	90
Philadelphia Bn. of Maintenance & Repair	323	203
Postal Telegraph & Cable Co.	319	28
Pie Bakeries, Inc.	312	23
N. Y. Power & Light Corp.	305	119
Beech-Nut Packing Company	301	250
*Am. Fruit Growers, Inc.	300	500
Federal Water Service System	295	340
Mass. Dept. of Public Works ..	287	.....
Continental Oil Company	274	431
**Public Serv. Co. of No. Ill.	274	.....
Consumers Power Company	267	706
So. Calif. Edison Company	261	598
N. Y. C. Dept. of Water, Gas & Elec.	255	98
*General Cigar Company	252	50
Pittsburgh Plate Glass Co.	236	618
Hoffman Beverage Company	211	144
San Joaquin Corporation	197	234
N. Y. & Queens Elec. Light & Power Company	191	136
Cleveland Elec. Illum. Co.	176	252
Ohio Edison Company	175	164
Brooklyn Edison Company	169	75
Central Union Tr. Term Inc.	168	.....
Motor Haulage Company	159	8
Pillsbury Flour Mills Co.	149	338
Brooklyn Union Gas Co.	135	73
Empire Oil & Refining Co.	131	322
Georgia Power Company	126	374
N. Y. C. Police Dept.	117	549
Boston Elevated Railway	111	49
Alabama Power Company	100	249

†In addition the companies listed above operate a combined total of 4,755 trailers.

‡In addition the companies listed above operate a combined total of 813 buses.

*1934 figures; 1935 not available.

**1933 figures; later figures not available.

25,975 Fleet Owners Operate 772,000 Motor Trucks

(Figures from Chilton Company, January, 1935)

	5 to 9 TRUCKS		10 to 24 TRUCKS		25 AND OVER		TOTAL	
	Fleet	Trucks	Fleet	Trucks	Fleet	Trucks	Fleet	Trucks
	Owners	Operated	Owners	Operated	Owners	Operated	Owners	Operated
Alabama.....	90	642	72	1,408	22	1,489	184	3,539
Arizona.....	32	233	44	777	17	765	93	1,775
Arkansas.....	82	571	51	947	10	514	143	2,032
California.....	691	4,584	703	14,378	385	66,948	1,779	85,910
Colorado.....	100	684	109	1,985	32	3,747	241	6,416
Connecticut....	165	1,051	324	5,986	115	8,417	604	15,454
Delaware.....	13	70	50	870	17	1,153	80	2,093
Dist. of Col....	77	524	48	896	74	7,777	199	9,197
Florida.....	162	1,154	142	2,785	44	3,260	348	7,199
Georgia.....	158	1,050	99	1,776	42	4,798	299	7,624
Idaho.....	25	132	19	309	4	373	48	814
Illinois.....	1,071	7,138	1,023	19,771	387	57,726	2,481	84,635
Indiana.....	399	2,879	319	5,774	86	6,666	804	15,319
Iowa.....	168	1,184	140	2,515	39	3,262	347	6,961
Kansas.....	127	892	103	1,812	24	1,831	254	4,535
Kentucky.....	137	961	107	1,860	38	2,444	282	5,265
Louisiana.....	134	929	132	2,107	43	4,397	309	7,433
Maine.....	36	189	68	1,111	19	1,737	123	3,037
Maryland.....	251	1,650	160	2,877	91	10,400	502	14,927
Massachusetts..	680	4,565	530	9,959	224	23,825	1,434	38,349
Michigan.....	658	4,798	548	9,873	209	18,646	1,415	33,317
Minnesota.....	169	1,123	189	3,598	99	8,002	457	12,723
Mississippi....	52	336	25	470	9	231	86	1,037
Missouri.....	298	2,165	337	6,276	131	12,577	766	21,018
Montana.....	53	340	28	487	5	326	86	1,153
Nebraska.....	91	605	96	1,707	37	2,779	224	5,091
Nevada.....	16	114	7	124	3	98	26	336
New Hampshire..	20	103	49	851	15	528	84	1,482
New Jersey.....	546	3,653	535	9,570	195	35,297	1,276	48,520
New Mexico....	10	51	17	311	3	178	30	540
New York.....	1,928	12,882	807	12,784	507	79,788	3,242	105,454
N. Carolina....	135	951	121	2,113	37	4,229	293	7,293
N. Dakota.....	12	86	13	238	4	357	29	681
Ohio.....	835	5,815	485	10,550	255	21,747	1,575	38,112
Oklahoma.....	126	814	94	1,750	48	4,092	268	6,656
Oregon.....	95	615	94	1,820	28	2,149	217	4,584
Pennsylvania...	846	5,953	1,008	18,658	409	52,787	2,263	77,398
Rhode Island...	105	682	127	2,280	42	3,966	274	6,928
S. Carolina....	80	520	53	901	11	1,470	144	2,891
S. Dakota.....	14	110	20	320	5	445	39	875
Tennessee.....	138	922	122	2,319	43	3,743	303	6,984
Texas.....	160	899	380	6,847	119	19,786	659	27,532
Utah.....	58	382	47	940	15	701	120	2,023
Vermont.....	20	118	10	179	4	297	34	594
Virginia.....	139	1,011	117	1,897	38	3,027	294	5,935
Washington....	206	1,393	144	2,594	59	7,474	409	11,461
West Virginia..	166	1,078	88	1,687	34	3,211	288	5,976
Wisconsin.....	196	2,036	221	4,420	69	5,700	486	12,156
Wyoming.....	17	97	15	284	2	296	34	677
Total.....	11,787	80,734	10,040	185,751	4,148	505,456	25,975	771,941

Gross Weight, Dimensions and Speed For Vehicles Operating On The Highways

Recommended by
American Association of State Highway Officials

What Is Recommended* (Maximums)

Width—8 feet.

Height—12 feet, 6 inches.

Length—Single vehicle†, 35 feet.

Combinations (only two units allowed), 45 feet.

Speed—Minimum: Not so slow as to impede or block normal and reasonable flow of traffic except when necessary for safety.

Maximum: no bus or truck greater than 45 miles an hour; passenger automobile speeds shall be consistent with safety and proper use of the roads.

Solid tire vehicles maximum speed set at 10 miles an hour.

Axle and Wheel Loads

Axle load equipped with solid, cushion or high pressure pneumatics 16,000 lbs.

Wheel load 8,000 lbs.

Low pressure pneumatics, wheel load 9,000 lbs.

Gross Weights‡

Subject to the limitation imposed by the recommended axle loads no vehicle shall be operated whose total gross weight, with load, exceeds that given by the formula

$W = c (L \text{ plus } 40)$ where—

W = total gross weight, with load, in pounds.

c = a coefficient to be determined by the individual states.

L = the distance between the first and last axles of a vehicle or combination of vehicles, in feet.

A value of 700 is recommended for "c" as the lowest which should be imposed but this should not be construed as inhibiting greater values.

Why Recommended

- To establish one of the fundamental prerequisites of highway design.
- To promote efficiency in the interstate operation of the motor vehicle.
- To secure safety in highway operation.
- To remove from the highways undesirable equipment and operations.
- To stabilize on a definite basis the many relationships between the highway and the motor vehicle.

Groups Which Have Approved Recommendations

American Automobile Association
Automobile Manufacturers Association
Detroit Board of Commerce
National Association of Motor Bus Operators
National Grange
National Highway Users Conference
National Transportation Committee

*Special permits required for occasional movements of materials exceeding dimensions provided.

†Truck tractor and semi-trailer construed as single vehicle in determining lengths.

‡This gross weight recommendation is particularly applicable to bridges since axle loads and length limitations are determinative in their practical application.

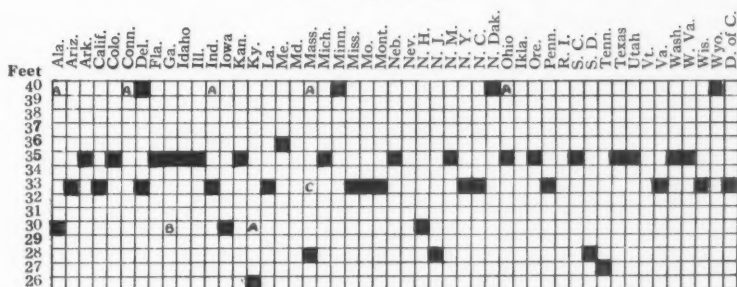
Present Regulations on Size and Weight Compared with Recommendations

NUMBER OF STATES WITH MAXIMUM

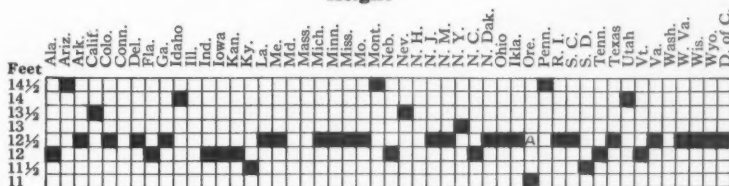
	Larger Same Smaller				Larger Same Smaller		
Width	2	44	3	Length, Single	10	17	22
Height	14	23	12	Length, Combination	26	13	10
Axle Load . .	18	13	18	Lgth., Trac. Semi-Trailer	35	7	7

State Restrictions on Motor Vehicle Dimensions

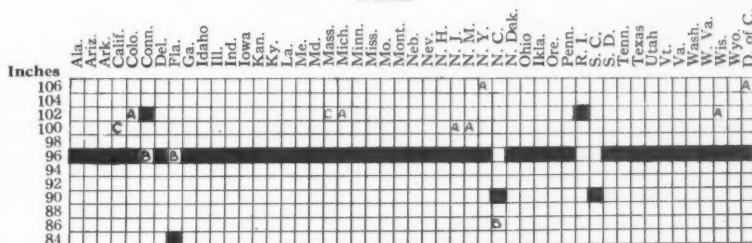
Length, Single Unit



Height



Width



113,130 Motor Buses in U. S.—1934

(Figures as of December 31st from "Bus Transportation")

	REVENUE	1930	1931	1932	1933	1934
1. City.....		13,350	14,050	16,225	16,500	17,580
2. Intercity.....		23,550	22,750	21,706	26,314	22,820
Total intrastate (1 + 2).....		36,900	36,800	37,931	42,814	40,400
3. Interstate.....		5,000	5,600	5,000	5,000	5,000
Total common carriers (1 + 2 + 3).....		41,900	42,400	42,931	47,814	45,400
4. Sightseeing.....		2,750	3,000	2,069	2,186	2,600
Total (1 + 2 + 3 + 4)		44,650	45,400	45,000	50,000	48,000
NON-REVENUE						
5. Schools*.....		45,000	51,500	59,000	60,300	64,130
6. Hotel.....		750	700	500	350	300
7. Industrial.....		1,000	900	800	600	500
8. Miscellaneous.....		400	400	400	250	200
Total (5 + 6 + 7 + 8)		47,150	53,500	60,700	61,500	65,130
Grand total.....		91,800	98,900	105,700	111,500	113,130
a. Motor carriers.....		31,064	31,850	32,213	33,280	29,990
b. Electric railways....		11,827	12,050	11,541	11,000	11,600
c. Steam railroads.....		1,759	1,500	1,246	720	1,410

*About 6,000 buses in school service are operated part time as common carriers, and consequently are included in the figure for that service.

16,614,000,000 Bus Passenger-Miles in 1934

(Figures from "Bus Transportation")

	In Millions					
Passenger - miles (revenue buses only).....	1929	1930	1931	1932	1933	1934
City service.....	10,985	11,280	10,880	10,374	10,573	16,614
Intercity service.....	4,038	4,050	3,975	3,900	3,969	5,217
Passengers carried (revenue buses only).....	6,797	7,080	6,725	6,300	6,433	11,287
City service (revenue only)....	1,774	1,784	1,726	1,663	1,672	2,202
Intercity service.....	1,346	1,350	1,325	1,300	1,323	1,809
Passengers carried, school buses...	422	428	395	357	329	378
Other non-common carriers.....	400	460	500	680	710	514
	18.8	18.8	17	14.5	10	10

Bus Census by States—1927-1934

(This is a compilation of statistics obtained as a result of actual censuses conducted by "Bus Transportation." Figures indicated for the 1931 census may be accepted as embracing approximately 94 per cent of the bus operation in the United States. Due to improvement of census machinery "Bus Transportation" has been enabled to present a more comprehensive picture of the nation's bus operations with each succeeding year, and figures since 1931 approximate 100 per cent.)

	1927	1928	1929	1930	1931	1932	1933	1934
Alabama.....	825	1,230	1,225	2,379	2,376	2,505	2,391	2,491
Arizona.....	346	387	434	608	509	1,041	827	787
Arkansas.....	336	587	861	1,441	1,450	1,524	1,357	1,354
California.....	3,815	3,989	4,195	4,349	4,289	5,165	4,282	4,027
Colorado.....	1,141	1,157	1,299	1,504	985	1,375	1,097	1,258
Connecticut.....	977	920	1,227	1,214	1,228	1,276	1,196	1,331
Delaware.....	194	221	206	211	258	237	272	254
Dist. of Col.....	464	302	327	344	368	390	356	373
Florida.....	1,364	1,599	1,507	1,671	1,564	1,151	1,754	1,801
Georgia.....	971	1,020	1,484	1,505	1,791	2,785	2,571	2,781
Idaho.....	357	441	485	536	515	534	425	457
Illinois.....	2,279	2,230	2,493	2,390	2,077	1,595	1,800	1,736
Indiana.....	6,187	6,676	7,044	7,071	7,307	7,542	7,144	7,223
Iowa.....	1,451	1,602	1,990	1,952	2,753	2,122	1,990	2,665
Kansas.....	781	700	784	841	814	850	816	826
Kentucky.....	408	599	652	764	755	1,023	1,270	1,099
Louisiana.....	1,725	1,787	2,458	2,665	2,666	2,727	2,723	2,725
Maine.....	361	324	307	314	259	638	564	656
Maryland.....	723	895	853	1,289	1,401	1,282	1,363	1,269
Massachusetts...	2,643	2,822	2,915	3,064	3,180	3,540	3,401	3,662
Michigan.....	2,171	2,539	2,828	2,785	2,768	2,700	2,027	1,988
Minnesota.....	1,575	1,814	1,800	1,978	2,010	2,153	2,224	2,261
Mississippi.....	1,876	3,176	3,208	3,227	2,889	4,110	4,089	4,401
Missouri.....	865	879	833	781	924	1,430	1,918	1,904
Montana.....	450	493	505	512	513	536	467	505
Nebraska.....	464	484	503	639	837	707	948	531
Nevada.....	124	206	180	151	150	178	230	233
New Hampshire...	220	285	338	355	344	358	351	290
New Jersey....	4,434	4,892	5,630	6,434	6,814	7,127	5,801	6,770
New Mexico....	297	323	376	396	546	596	639	527
New York.....	4,051	4,416	4,456	4,720	5,010	8,442	9,058	9,939
North Carolina..	3,506	3,688	4,211	4,513	4,381	4,712	4,714	4,843
North Dakota...	808	953	860	564	563	587	596	610
Ohio.....	4,476	4,765	4,740	4,882	7,228	7,820	7,601	8,229
Oklahoma.....	1,286	1,467	1,458	1,507	1,810	2,253	2,270	1,939
Oregon.....	994	831	714	840	806	907	775	890
Pennsylvania...	3,409	3,556	3,607	3,759	5,205	5,719	4,777	4,867
Rhode Island...	299	305	285	394	402	500	357	437
South Carolina...	329	1,043	1,147	1,394	1,787	1,844	1,634	1,514
South Dakota...	395	336	422	357	355	451	396	401
Tennessee.....	983	1,064	1,069	1,119	1,235	1,222	1,252	1,252
Texas.....	1,498	1,720	1,856	1,847	1,927	3,329	3,347	3,451
Utah.....	472	483	469	583	599	521	522	577
Vermont.....	181	205	266	309	269	400	369	339
Virginia.....	1,834	1,805	2,116	2,183	2,221	2,335	2,401	2,355
Washington....	1,837	1,740	1,740	2,281	2,287	2,406	2,512	2,654
West Virginia...	712	769	868	884	887	1,100	955	1,144
Wisconsin.....	1,416	1,303	1,228	1,272	1,297	1,180	1,148	1,757
Wyoming.....	576	689	788	847	798	861	867	874
United States								
Total	69,982	75,717	81,247	87,625	93,407	105,786	101,747	106,277

1934 Export Summary

Foreign sales of motor vehicles of U. S. design 427,374

	Passenger Cars	Trucks	Total
U. S. Exports	148,387	93,766	242,153
Foreign assemblies	35,769	32,600	68,369
Canadian Output	92,647	24,205	116,852
Total	276,803	150,571	427,374

Percent of American production sold outside the
United States (Including sales in Canada):

Cars	12.2%
Trucks	25.1%
Total	14.9%

World production of motor vehicles 3,728,891

Value of United States and Canadian exports
(including tires, parts and accessories) \$214,291,313

	Number Cars and Trucks	Value Including Repair Parts and Tires
United States	310,522	\$188,134,537
Canada	43,368	\$ 26,156,776

Rank among United States exports of manufac-
tured products First

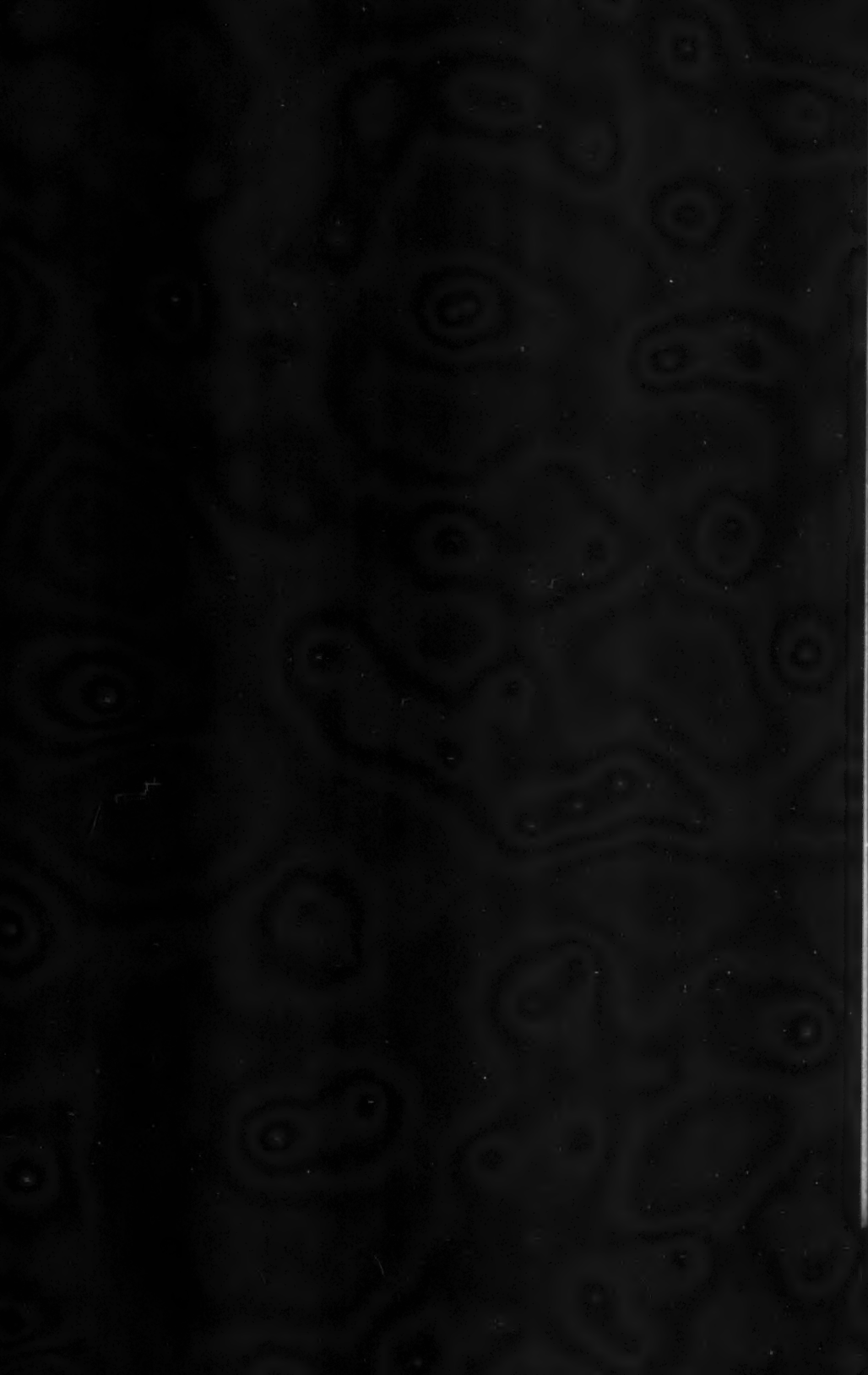
Leading export market (excepting Canada):

Passenger Cars	Union of South Africa
Motor Trucks	Japan

Motor vehicles imported into U. S. A 589

World registration 35,087,698

U. S. registration (24,933,403), percent of world 71%



Sales of American Motor Vehicles Outside United States

Year	PASSENGER CARS			MOTOR TRUCKS			Total Motor Vehicles
	U. S. Exports Inc. Foreign Assemblies*	Canadian Output	Total Cars	U. S. Exports Inc. Foreign Assemblies*	Canadian Output	Total Trucks	
1921..	51,050	61,098	112,148	12,569	5,148	17,717	129,865
1922..	108,426	94,904	203,330	22,473	7,149	29,622	232,952
1923..	175,158	129,228	304,386	60,025	17,210	77,235	381,621
1924..	217,169	117,765	334,934	75,980	17,481	93,461	428,395
1925..	316,093	135,573	451,666	112,594	26,397	138,991	590,657
1926..	289,135	164,856	453,991	104,309	39,871	144,180	598,171
1927..	331,959	146,827	478,786	137,509	32,227	169,736	648,522
1928..	418,845	196,741	615,586	163,919	45,641	209,560	825,146
1929..	451,079	207,498	658,577	283,132	55,797	338,929	997,506
1930..	247,764	125,442	373,206	157,951	28,750	186,701	559,907
1931..	134,048	65,093	199,141	107,509	17,528	125,037	324,178
1932..	72,889	50,694	123,583	47,350	10,095	57,445	181,028
1933..	98,155	53,849	152,004	78,428	12,003	90,431	242,435
1934..	184,156	92,647	276,803	126,366	24,205	150,571	427,374

*The foreign assembly figures included here are also included in the factory sales figures compiled by the U. S. Census Bureau.

15% of American Production Sold Outside United States

Year	Passenger Cars	Motor Trucks	Total	Year	Passenger Cars	Motor Trucks	Total
1921..	7.3%	10.7%	7.7%	1928...	15.3%	35.5%	17.9%
1922..	8.5%	10.6%	8.8%	1929...	13.7%	40.9%	17.7%
1923..	8.1%	18.1%	9.1%	1930...	12.8%	31.0%	15.9%
1924..	10.1%	21.5%	11.4%	1931...	9.8%	28.8%	13.1%
1925..	11.6%	24.9%	13.3%	1932...	10.4%	23.4%	12.6%
1926..	11.4%	25.8%	13.2%	1933...	9.3%	25.2%	12.2%
1927..	15.5%	34.1%	18.1%	1934..	12.2%	25.1%	14.9%

Value of Automotive Exports—U. S. and Canada

	1929	1930	1931	1932	1933	1934
Passenger Cars						
United States.....	\$239,626,014	\$110,355,978	\$53,047,943	\$25,632,918	\$33,945,464	\$80,604,563
Canada.....	29,824,433	12,737,784	4,011,921	4,282,666	6,812,989	12,988,365
Motor Trucks						
United States.....	113,063,232	56,924,119	26,302,030	12,210,841	20,691,338	45,125,359
Canada.....	14,831,006	6,060,999	1,779,751	963,295	1,693,070	4,215,429
Parts and Accessories						
United States.....	170,952,592	114,688,185	72,607,577	37,503,084	30,971,622	48,883,430
Canada.....	2,350,232	1,587,571	829,838	1,846,033	1,337,302	2,415,222
Tires, Rubber						
United States.....	42,179,505	33,106,831	21,197,675	12,049,278	11,717,813	13,521,185
Canada.....	18,807,717	14,374,559	6,472,040	3,249,399	3,581,505	6,537,760
Total						
United States.....	\$565,821,343	\$315,075,113	\$173,155,225	\$87,396,121	\$97,326,237	\$188,134,537
Canada.....	65,813,388	34,760,913	13,093,550	10,341,393	13,424,866	26,156,776
Grand Total...	\$631,634,731	\$349,836,026	\$186,248,775	\$97,737,514	\$110,751,103	\$214,291,313

*Parts shipped to Canada for assembly have been deducted, but other "parts for assembly" have been included.

77 Percent of World Motor Output in United States and Canada

(Figures from Automotive-Aeronautics Division, Department of Commerce)

	1933			1934		
	Passenger Cars	Trucks and Busses	Total	Passenger Cars	Trucks and Busses	Total
United States	1,573,512	346,545	1,920,057	2,177,919	575,192	2,753,111
Canada	53,849	12,003	65,852	92,647	24,205	116,852
U. S. and Canada . . .	1,627,361	358,548	1,985,909	2,270,566	599,397	2,869,963
Austria	1,150	425	1,575	975	380	1,355
Belgium	800	600	1,400	500	240	740
Czechoslovakia	8,670	1,330	10,000	9,110	890	10,000
Denmark . . . . .	.....	140	140	.....	182	182
France	163,770	28,159	191,929	172,328	29,316	201,644
Germany	92,610	13,222	105,832	147,330	25,684	173,014
Hungary . . . . .	.....	143	143	19	203	222
Italy	32,000	10,000	42,000	38,907	4,509	43,416
Japan	191	1,617	1,808	1,930	1,915	2,845
Poland	*780	.....	780	200	600	800
Soviet Russia	10,208	39,467	49,675	17,100	55,366	72,466
Spain	80	295	375	100	730	830
Sweden	700	2,275	2,975	600	2,522	3,122
Switzerland . . . . .	.....	480	480	16	420	436
United Kingdom	216,149	64,377	280,526	264,957	82,899	347,856
Total, Rest of World	527,108	162,530	689,638	653,072	205,856	858,928
World Total	2,154,469	521,078	2,675,547	2,923,638	805,253	3,728,891

(1) Including 895 small passenger and delivery cars.

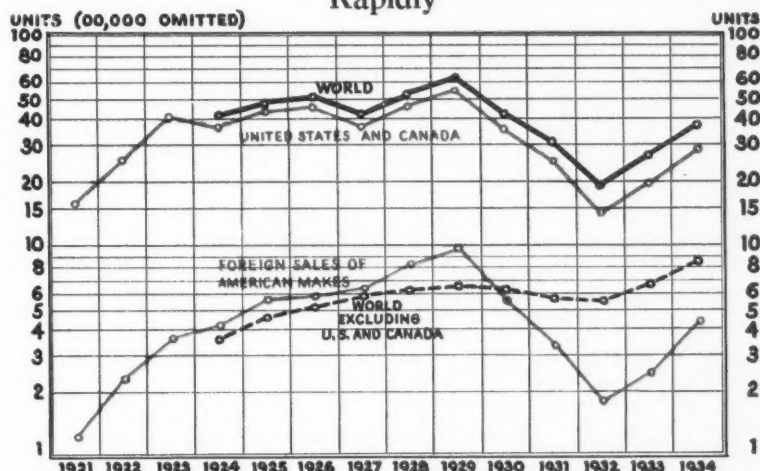
(2) Including trucks.

World Motor Vehicle Registrations by Year†

Dec. 31	Outside United States	% Gain Yearly	United States	% Gain Yearly	World Total	% Gain Yearly	U. S. % of World
1916 . . .	719,246	..	3,512,996	44	4,232,242	..	83
1919 . . .	1,286,948	..	7,565,446	23	8,852,394	..	85
1920 . . .	1,710,983	33	9,231,941	22	10,942,924	24	84
1921 . . .	2,190,609	28	10,463,295	13	12,653,904	15	83
1922 . . .	2,433,737	11	12,238,375	17	14,672,112	16	83
1923 . . .	2,931,407	21	15,092,177	23	18,023,584	23	84
1924 . . .	3,715,735	27	17,595,373	17	21,311,108	18	83
1925 . . .	4,537,973	22	19,937,274	13	24,475,247	15	81
1926 . . .	5,512,933	22	22,001,393	10	27,514,326	12	80
1927 . . .	6,425,316	17	23,133,243	5	29,558,559	7	78
1928 . . .	7,404,651	15	24,493,124	6	31,897,775	8	77
1929 . . .	8,473,948	14	26,501,443	8	34,975,391	10	76
1930 . . .	9,108,234	8	26,545,281	0.16	35,653,515	2	74
1931 . . .	9,277,044	1.9	25,832,884	-2.5	35,109,928	-1.5	73
1932 . . .	9,503,282	2.9	23,827,290	-1.2	33,330,572	-0.1	72
1933 . . .	9,505,032	2.8	23,843,591	-1.1	33,348,623	-0.5	72
1934 . . .	10,154,295	6.9	24,933,403	4.6	35,087,698	5.2	71

†For tabulation by countries in 1934 see pages 82-84.

Foreign Markets for American Cars Recovering Rapidly



American foreign sales include passenger car and truck exports from U. S., Canadian production and assemblies abroad of vehicles from parts produced in the United States.

Exports From Producing Countries

(Figures from Automotive-Aeronautics Trade Division, Department of Commerce)

Producing Country	Production		Exports		Percent of Production Exported	
	1933	1934	1933	1934	1933	1934
United States	1,920,057	2,753,111	107,031 ¹	236,313 ¹	5.6 ¹	8.6
Canada	65,852	116,852	20,403	43,368	30.9	37.1
U. S. & Canada	1,985,909	2,869,963	127,434	279,681	6.4	9.7
Austria	1,575	1,355	637	747	40.4	55.1
Belgium	1,400	740	153	159	10.9	21.5
Czechoslovakia	10,000	10,000	304	225	3.0	2.2
Denmark	140	182	.....	.....	.....	.....
France	191,929	201,644	25,466	24,987	13.3	12.4
Germany	105,832	173,014	13,369	13,364	12.6	7.7
Hungary	143	222	.....	.....	.....	.....
Italy	42,000	43,416	7,389	9,434	17.6	21.7
Japan	1,808	2,845	.....	349	.....	12.3
Poland	780	800	.....	**46.9	.....	.....
Soviet Russia	49,675	72,466	.....	307	.....	.4
Spain & Balearic Is.	375	830	.....	.....	.....	.....
Sweden	2,975	3,122	1,089	31,715	36.6	54.9
Switzerland	480	436	102	166	21.3	38.1
United Kingdom	280,526	347,856	51,692	57,649	18.4	16.6
Total Ex. U. S. & Canada	689,638	858,928	100,201	109,102*	14.5	12.7
World Total	2,675,547	3,728,891	227,635	388,783*	8.5	10.4

⁽¹⁾ Excluding shipments to non-contiguous territories. Does not include foreign assemblies of parts made in the United States. ⁽²⁾ Not available.

⁽²⁾ Including exports of American cars assembled in Sweden, most of which are exported to Finland.

* Not including Poland. **Metric tons.

City Registration of

(Figures from Local Chambers of Commerce)

City	Motor Cars	Motor Trucks	Taxis	Buses	Total M. V.	Area Sq. Mi.	Population
©Akron, Ohio.....	58,730	7,848	25	133	66,736	40.0	255,040
©Albany, N. Y.....	39,979	7,856	.....	609	47,444	19.3	127,412
*Allentown, Pa.....	14,575 ²	3,170 ²	.....	.....	17,745	10.2	92,563
*Altoona, Pa.....	10,928 ²	1,985 ²	.....	.....	12,913	8.8	82,054
©Atlanta, Ga.....	63,716	10,145	.....	.....	73,861	34.7	284,000
©Atlantic City, N. J.....	21,157	5,457	.....	545	27,159	16.4	66,198
Bayonne, N. J.....	7,903	1,480	12	93	9,488	4.5	88,979
Berkeley, Cal.....	23,619 ¹	.....	.....	.....	23,619	17.19	87,539
*Bethlehem, Pa.....	8,235 ²	1,333 ²	.....	.....	9,568	17.7	57,892
©Binghamton, N. Y.....	32,937	4,000	.....	.....	36,937	9.38	76,662
Birmingham, Ala.....	39,107	5,872	.....	.....	44,979	53.0	275,000
†Boston, Mass.....	76,954 ²	18,537 ²	.....	.....	95,491	43.9	781,188
Bridgeport, Conn.....	18,787	3,548	21	16	22,372	14.6	146,716
©Buffalo, N. Y.....	152,267	18,529	.....	822	171,618	42.0	576,073
†Cambridge, Mass.....	12,775 ²	2,916 ²	.....	.....	15,691	6.0	113,643
©Camden, N. J.....	40,510	6,792	.....	396	47,698	9.5	118,700
Canton, Ohio.....	26,000	2,600	.....	.....	28,600	13.68	104,906
©Charleston, W. Va.....	20,471	2,977	.....	.....	23,448	8.2	65,000
©Chattanooga, Tenn.....	17,850	2,240	274	.....	20,364	27.32	119,798
Chicago, Ill.....	368,585	48,894	4,108	546	422,133	210.73	3,600,000
Cincinnati, Ohio.....	80,114	10,827	.....	.....	90,941	72.0	451,160
©Cleveland, Ohio.....	250,944	24,204	.....	.....	275,148	73.0	900,000
Columbus, Ohio.....	66,475	7,685	.....	.....	74,160	38.8	292,522
©Covington, Ky.....	10,290	1,207	.....	.....	11,497	.....	65,000
©Dallas, Tex.....	79,041	12,955	.....	10	92,006	45.1	260,475
Dayton, Ohio.....	44,676	4,565	.....	.....	49,241	23.69	206,780
Denver, Colo.....	65,555	4,332	.....	.....	69,887	58.0	287,861
Des Moines, Ia.....	32,505	4,425	65	6	37,001	54.0	147,000
†Detroit, Mich.....	330,423 ²	29,742 ²	.....	.....	360,165	139.0	1,568,662
Duluth, Minn.....	18,000 ¹	.....	.....	.....	18,000	67.34	101,463
©Elizabeth, N. J.....	63,036	7,787	.....	532	71,355	9.7	114,589
©El Paso, Tex.....	20,448	3,358	.....	1	23,807	13.5	102,421
*Erie, Pa.....	20,152 ²	2,710 ²	.....	.....	22,862	20.5	115,967
Evansville, Ind.....	17,915	2,902	35	25	20,877	9.5	106,000
†Fall River, Mass.....	11,248 ²	1,973 ²	.....	.....	13,221	33.0	115,274
†Flint, Mich.....	36,035 ²	2,659 ²	.....	.....	38,694	29.8	156,492
©Fort Wayne, Ind.....	33,200	4,500	.....	.....	37,700	16.4	114,000
©Fort Worth, Tex.....	45,929	7,576	.....	142	53,647	58.0	175,000
Glendale, Cal.....	20,000	1,000	25	22	21,047	19.21	66,000
©Grand Rapids, Mich.....	49,155	6,420	56	80	55,711	23.4	176,700
*Harrisburg, Pa.....	16,878 ²	5,080 ²	.....	.....	21,958	10.0	80,339
Hartford, Conn.....	23,045	4,503	61	16	27,625	18.0	164,072
©Hoboken, N. J.....	75,046	13,964	.....	1,374	90,384	1.3	59,261
Houston, Tex.....	86,110	14,096	350	100	100,656	72.0	317,900
©Indianapolis, Ind.....	103,892	17,457	.....	.....	121,349	54.13	372,200
©Jacksonville, Fla.....	36,820	5,197	.....	380	42,397	39.06	135,146
©Jersey City, N. J.....	75,046	13,964	.....	1,374	90,384	20.2	318,000
*Johnstown, Pa.....	10,938 ²	1,888 ²	.....	.....	12,826	5.7	66,993
©Kalamazoo, Mich.....	13,789	1,343	.....	.....	15,132	60.5	54,786
Kansas City, Mo.....	99,000	16,000	.....	.....	115,000	59.65	423,600
†Kenosha, Wisc.....	9,108 ²	1,080 ²	.....	.....	10,188	7.4	50,262
©Knoxville, Tenn.....	24,000	3,500	200	200	27,900	26.4	105,802
*Lancaster, Pa.....	11,715 ²	2,182 ²	.....	.....	13,897	4.0	59,949
†Lansing, Mich.....	22,073 ²	1,909 ²	.....	.....	23,982	11.5	78,425
†Lawrence, Mass.....	9,393 ²	1,640 ²	.....	.....	11,033	6.7	85,068
©Lincoln, Neb.....	27,213	3,623	31	32	30,899	24.46	79,592
Long Beach, Cal.....	88,534	6,038	200	100	94,872	22.0	150,000
©Los Angeles, Cal.....	779,915	39,510	.....	.....	819,425	400.0	1,250,000
†Lowell, Mass.....	11,213 ²	1,979 ²	.....	.....	13,192	14.1	100,254
Lynn, Mass.....	13,566 ²	1,958 ²	.....	.....	15,524	11.5	102,320
Madison, Wis.....	16,000	.....	83	35	16,118	8.1	65,000
Manchester, N. H.....	16,000 ¹	.....	.....	.....	16,000	34.5	76,834
Memphis, Tenn.....	56,455	6,000	.....	.....	62,455	48.5	264,281
©Miami, Fla.....	44,422	16,670	.....	.....	61,092	30.0	110,637

Motor Vehicles, 1934

Commerce, as of January 1st, 1935)

City	Motor Cars	Motor Trucks	Taxis	Buses	Total M. V.	Area Sq. Mi.	Population
†Milwaukee, Wisc.....	102,988 ¹	13,113 ²	.....	.....	116,101	42.0	578,249
†Minneapolis, Min.....	105,451 ¹	11,514 ²	.....	.....	116,965	58.8	464,356
⊙Mobile, Ala.....	17,000 ¹	.....	.....	.....	17,000	20.0	70,602
⊙Montgomery, Ala.....	10,154 ¹	.....	.....	.....	10,154	20.3	66,079
Mt. Vernon, N. Y.....	12,574	2,000	.....	.....	14,574	4.0	64,047
⊙Nashville, Tenn.....	35,037	4,759	140	.....	39,936	26.4	153,866
⊙Newark, N. J.....	149,197	25,084	.....	2,420	176,701	23.5	442,337
†New Bedford, Mass.....	12,956 ¹	2,238 ²	.....	.....	15,194	19.3	112,597
New Britain, Conn.....	8,380	1,127	3	19	9,529	13.4	68,128
New Haven, Conn.....	21,132	5,242	58	349	26,781	17.9	162,655
New York, N. Y.....	656,031	113,565	.....	24,090	793,685	299.0	6,930,446
Niagara Falls, N. Y.....	14,200	1,400	125	15	15,740	15.87	75,460
Norfolk, Va.....	13,077	1,973	40	61	15,151	38.0	129,000
Oakland, Cal.....	95,400	4,800	400	150	100,750	60.0	298,530
Omaha, Neb.....	46,000	6,200	125	12	52,337	39.8	214,006
Pasadena, Cal.....	31,005	1,000	12	25	32,042	19.0	80,000
Patterson, N. J.....	21,759	3,579	22	253	25,613	8.36	140,200
Peoria, Ill.....	17,800	2,100	30	22	19,952	50.0	106,000
*Philadelphia, Pa.....	195,939 ¹	35,321 ²	.....	.....	231,460	127.0	1,950,961
*Pittsburgh, Pa.....	78,536 ¹	15,276 ²	.....	.....	93,812	49.1	669,817
†Pontiac, Mich.....	15,466 ¹	1,179 ²	.....	.....	16,645	19.8	55,000
Portland, Ore.....	67,757	5,776	138	76	73,747	66.6	310,560
†Quincy, Mass.....	10,405 ¹	1,127 ²	.....	.....	11,532	.....	71,983
⊙Racine, Wisc.....	16,500	5,000	.....	.....	21,500	8.2	68,808
*Reading, Pa.....	16,866 ¹	2,931 ²	.....	.....	19,797	9.0	111,171
Richmond, Va.....	19,589	3,353	.....	.....	22,942	23.97	182,929
Roanoke, Va.....	13,965	2,191	11	44	16,211	10.8	74,000
⊙Rochester, N. Y.....	94,823	11,102	.....	341	106,266	35.9	328,132
Rockford, Ill.....	13,682	1,230	18	40	14,970	12.1	84,864
⊙Sacramento, Cal.....	43,687	3,727	.....	.....	47,414	14.0	93,750
Saginaw, Mich.....	19,500	2,460	104	30	22,094	17.0	80,715
⊙San Antonio, Tex.....	62,797	11,543	.....	15	74,355	36.0	231,542
San Diego, Cal.....	70,000	3,200	125	75	73,400	96.0	175,000
⊙San Francisco, Cal.....	134,864	10,016	.....	.....	144,880	42.19	703,233
⊙San Jose, Cal.....	54,809	3,663	10	10	58,492	12.0	87,500
Savannah, Ga.....	12,839 ¹	.....	.....	.....	12,839	8.0	85,000
*Scranton, Pa.....	17,638 ¹	3,843 ²	.....	.....	21,481	20.5	143,433
Shreveport, La.....	19,500	3,500	200	.....	23,200	19.31	76,659
Sioux City, Ia.....	15,871	2,114	22	21	18,028	45.0	88,905
†Somerville, Mass.....	10,117 ¹	2,568 ²	.....	.....	12,685	.....	103,908
⊙South Bend, Ind.....	21,000	4,000	70	100	25,170	19.84	104,193
Spokane, Wash.....	33,000 ¹	.....	.....	.....	33,000	41.3	115,514
⊙Springfield, Ill.....	21,500 ¹	4,300 ²	.....	.....	25,800	10.0	71,864
†Springfield, Mass.....	26,626 ¹	3,594 ²	.....	.....	30,220	33.1	149,900
Springfield, Ohio.....	13,306	1,397	13	33	14,749	11.71	68,743
St. Louis, Mo.....	166,743	28,411	.....	.....	195,154	61.4	821,960
St. Paul, Minn.....	58,150	10,350	95	237	68,832	52.17	290,060
⊙Syracuse, N. Y.....	60,906	8,218	1,110	413	70,647	25.3	256,701
⊙Tacoma, Wash.....	26,032	3,859	.....	.....	29,891	51.25	106,817
⊙Tampa, Fla.....	28,193	5,708	295	.....	34,196	26.0	101,161
⊙Terre Haute, Ind.....	16,882	3,644	116	61	20,703	10.0	62,810
†Toledo, Ohio.....	68,981 ¹	6,568 ²	.....	.....	75,549	38.1	290,718
⊙Topeka, Kans.....	21,870	3,217	.....	.....	25,087	11.75	70,000
⊙Trenton, N. J.....	33,571	6,592	.....	475	40,638	7.7	123,356
†Tulsa, Okla.....	54,321	8,479	190	530	63,520	22.0	148,000
Utica, N. Y.....	22,500	3,000	65	56	25,621	21.20	101,740
Waterbury, Conn.....	12,761	2,158	10	21	14,950	29.0	99,902
Wheeling, W. Va.....	12,099	2,119	16	12	14,246	11.2	61,659
⊙Wichita, Kans.....	34,550	5,342 ¹	71	.....	39,963	22.0	112,000
*Wilkes-Barre, Pa.....	13,212 ¹	2,856 ²	.....	.....	16,068	7.3	86,626
†Worcester, Mass.....	25,775 ¹	3,794 ²	.....	.....	29,569	.....	195,311
⊙Yonkers, N. Y.....	124,297	12,650	.....	.....	136,947	21.5	137,000
Youngstown, O.....	28,653	3,551	22	81	32,307	33.5	180,000

†Areas and population in all cases include only the corporate limits of the city, and not the county or suburban area.

*Pennsylvania Motor List Co. figures as of July 1, 1934.
†The Reuben H. Donnelley Corporation figures as of July 1, 1934.

⊙—County figures for motor vehicles.

¹—Includes trucks, taxis, and buses.

²—Includes taxis.

³—Includes buses.

35,087,000 Motor 71% of Total in United States

(Figures as of December 31, 1934 from Automotive and Aeronautics Trade Association)

Country	Passenger Cars	Buses	Trucks	Diesel Powered	Total Registration	Population per Motor Vehicle
†Aegean Islands (Italian)....	221	46	115	.....	382	344
Afghanistan.....	350	.....	12,700	.....	3,050	3,934
Alaska.....	2,073	.....	846	.....	2,919	20
Albania.....	459	113	338	.....	910	1,102
Algeria.....	49,010	1,950	6,000	230	57,190	115
Anglo-Egyptian Sudan.....	1,2620	.....	.....	.....	2,620	2,186
Antigua.....	241	9	41	.....	291	111
Arabia.....	2,110	234	294	.....	2,638	3,791
Argentina.....	163,200	7,500	54,181	150	225,031	61
Australia.....	452,685	1,957	140,709	(x)	595,351	11
Austria.....	18,260	2,063	14,633	.....	34,956	193
Azores.....	697	78	44	.....	819	310
Bahamas.....	853	23	199	.....	1,075	58
Bahrein Islands.....	108	.....	25	.....	133	902
Barbados.....	1,719	129	324	.....	2,172	80
†Belgian Congo.....	2,508	.....	2,320	.....	4,828	1,961
†Belgium.....	97,500	.....	57,500	.....	155,000	51
Bermuda.....	.....	.....	64	.....	64	434
Bolivia.....	800	50	3,000	.....	3,850	799
Brazil.....	82,951	3,498	41,802	174	128,425	337
British E. Africa:						
Kenya.....	7,135	46	1,587	13	8,781	350
Tanganyika.....	1,885	.....	11,408	.....	3,293	1,538
Uganda.....	1,569	.....	2,030	.....	3,599	1,006
Zanzibar.....	289	.....	1226	.....	515	457
†British Guiana.....	904	121	96	.....	1,121	287
British Honduras.....	120	.....	64	.....	184	292
British Malaya.....	25,772	1,947	6,610	32	34,361	127
British Somaliland.....	34	.....	89	.....	123	2,802
British South Africa:						
Basutoland.....	1426	.....	144	.....	570	875
Bechuanaland.....	1245	.....	72	.....	317	483
Northern Rhodesia.....	1850	.....	335	.....	1,185	1,176
Southern Rhodesia.....	10,289	6	1,957	.....	12,252	99
Swaziland.....	1270	.....	50	.....	320	398
British S. W. Africa Protect...	11,859	.....	814	.....	2,673	102
British West Africa:						
Gambia.....	117	2	155	.....	274	676
Gold Coast.....	1,772	25	4,416	11	6,224	526
Nigeria.....	2,102	624	1,872	.....	4,598	4,334
Sierra Leone.....	276	8	51	.....	335	288
†Bulgaria.....	1,102	362	617	.....	2,081	2,927
Canada.....	952,427	796	166,003	50	1,119,276	9
Canary Islands.....	5,110	.....	2,535	(x)	7,645	74
Cayman Islands.....	41	.....	7	.....	48	129
Ceylon.....	16,226	2,249	3,186	46	21,707	245
Chile.....	22,749	1,197	8,345	.....	32,291	138
China.....	29,372	8,193	10,867	330	48,762	9,737
Chosen.....	2,140	2,452	2,557	.....	7,149	2,946
Colombia.....	9,300	1,350	4,170	30	14,850	599
Cook Islands.....	49	1	50	.....	100	153
Coeta Rica.....	1,694	293	464	.....	2,451	225
Cuba.....	15,541	2,169	9,909	5	27,624	145
Cyprus.....	1,872	.....	.....	.....	1,872	186
Czechoslovakia.....	83,600	3,850	29,100	(x)	116,550	126
Danzig.....	1,919	46	779	21	2,765	147
Denmark.....	88,846	1,739	36,287	10	126,882	28
Dominica.....	55	.....	23	.....	78	580
†Dominican Republic.....	1,715	.....	741	.....	2,456	519

†American Automobile "1935 World Motor Census." ‡Figures as of Jan. 1, 1933. §Figures as of Dec. 31, 1933.

See footnotes page 84.

Vehicles in World

Increase 5% Over Last Year

Division, Department of Commerce, and from The American Automobile†

Country	Passenger Cars	Buses	Trucks	Diesel Powered	Total Registration	Population per Motor Vehicle
Ecuador.....	1,430	305	766	.....	2,501	1,040
Egypt.....	19,839	990	2,547	.....	23,376	606
‡Eritrea.....	116	2	177	.....	295	2,107
Estonia.....	1,955	166	1,403	.....	3,524	320
Ethiopia.....	250	.....	125	8	383	14,360
Faroe Islands.....	47	.....	58	.....	105	230
†Fiji Islands.....	763	276	216	.....	1,255	154
Finland.....	18,941	1,510	10,872	12	31,335	117
France.....	1,410,240	37,000	456,221	11,100	1,914,561	22
French Equatorial Africa.....	699	.....	1,062	.....	1,761	1,813
French Guiana.....	135	4	82	.....	221	9,589
French Indo-China.....	11,013	1,861	1,108	.....	13,982	1,551
French Somaliland.....	165	5	40	.....	210	329
†French West Africa.....	2,500	130	2,750	.....	5,380	1,508
Germany.....	755,000	11,000	192,000	10,000	968,000	68
Gibraltar.....	839	46	108	.....	993	22
Greece.....	7,800	1,680	4,570	50	14,100	460
Grenada.....	324	4	92	.....	420	158
Guadeloupe.....	1, 13,150	(x)	(x)	.....	13,150	85
Guam.....	184	9	213	.....	406	50
Guatemala.....	1,722	352	814	.....	2,888	778
Haiti.....	2,239	320	411	.....	2,970	859
Hawaiian Islands.....	39,652	331	9,163	1	49,147	8
†Honduras.....	950	3	450	.....	1,403	609
Hong Kong.....	2,988	155	817	39	3,999	225
Hungary.....	10,325	469	3,465	90	14,349	606
Iceland.....	707	50	992	.....	1,749	65
India and Burma.....	78,253	22,450	5,625	50	106,378	3,318
India (Netherland).....	39,644	5,111	9,336	.....	54,091	1,123
Iraq.....	13,677	.....	1,137	8	4,822	593
Irish Free State.....	41,000	810	9,260	50	51,120	58
Italy.....	266,737	9,482	99,575	2,113	377,907	109
†Italian Somaliland.....	209	3	319	.....	531	2,075
Jamaica.....	7,128	118	1,881	.....	9,127	116
Japan.....	53,012	25,359	41,441	.....	119,812	569
Latvia.....	2,048	245	1,573	.....	3,866	491
Liberia.....	52	.....	52	.....	104	9,615
†Libya (Tripolitania).....	475	.....	550	.....	1,025	700
Lithuania.....	1,326	282	476	.....	2,084	1,176
Luxembourg.....	6,340	177	3,884	.....	10,401	29
†Madagascar.....	3,250	.....	600	.....	3,850	961
Madeira Islands.....	630	160	135	.....	925	229
Malta.....	2,830	566	697	.....	4,093	61
Martinique.....	2,000	.....	500	.....	2,500	94
Mauritius.....	1,850	117	306	5	2,278	173
Mexico.....	62,067	4,132	23,955	6	90,160	184
†Monaco.....	1,327	100	180	.....	1,607	14
Montserrat.....	41	8	5	.....	54	242
Morocco, French.....	20,699	1,127	6,073	10	27,909	161
Morocco, International Zone.....	700	40	200	.....	940	54
Morocco, Spanish.....	2,300	420	1,600	.....	4,320	167
Netherlands.....	91,500	3,850	49,700	450	145,500	57
Netherland West Indies.....	1,469	241	637	.....	2,347	34
‡New Caledonia.....	350	.....	.....	.....	350	166
§New Hebrides.....	26	.....	45	.....	71	737

†American Automobile "1935 World Motor Census." ‡Figures as of Jan. 1, 1933. §Figures as of Dec. 31, 1933.
See footnotes page 84.

World Motor Vehicles 35,087,000

(Figures as of December 31, 1934 from Automotive and Aeronautics Trade Division, Department of Commerce, and from The American Automobile)

Country	Passenger Cars	Buses	Trucks	Diesel Powered	Total Registration	Population per Motor Vehicle
New Zealand.....	136,469	520	37,636	2	174,627	9
Newfoundland.....	2,657	9	581	.....	3,247	87
Nicaragua.....	566	20	170	.....	756	884
Norway.....	34,595	2,500	21,367	.....	58,462	48
Nyasaland.....	747	3	502	1	1,253	1,286
Palestine.....	4,539	1,037	2,436	.....	8,012	146
Panama and Canal Zone.....	7,804	530	1,263	.....	9,597	53
Papua.....	50	.....	120	.....	170	1,624
Paraguay.....	800	(x)	2,000	.....	2,800	304
Persia.....	2,381	(x)	4,084	.....	6,465	1,547
Peru.....	8,860	548	4,766	6	14,180	434
Philippine Islands.....	26,507	4,278	11,570	21	42,376	308
Poland.....	19,917	2,663	3,132	.....	25,712	1,281
Portugal.....	24,900	1,200	7,800	50	33,950	187
Portuguese East Africa.....	2,488	89	1,298	1	3,876	1,039
Portuguese West Africa.....	1,300	40	1,800	.....	3,140	987
Puerto Rico.....	12,144	379	2,818	.....	15,341	100
Reunion.....	800	10	250	.....	1,060	187
Rumania.....	16,000	3,400	4,200	.....	23,600	796
St. Kitts-Nevis.....	213	12	37	.....	262	141
St. Lucia.....	137	14	.....	.....	171	363
St. Pierre and Miquelon.....	47	.....	76	.....	123	35
St. Vincent.....	153	21	26	.....	200	240
Salvador, El.....	1,750	265	225	.....	2,240	680
Samoa, American.....	16	23	21	.....	60	167
Samoa, Western.....	145	18	87	.....	250	211
Seychelles.....	80	.....	46	1	86	334
Siam.....	4,450	.....	3,800	.....	8,250	1,395
Society Islands (French Oceania).....	312	.....	1121	.....	433	43
Solomon Islands.....	2	.....	41	.....	43	2,188
Soviet Russia.....	33,500	.....	146,500	.....	180,000	921
Spain.....	116,222	15,306	39,938	5,641	177,107	135
Spitzbergen.....	.....	.....	1	.....	1	1,300
Surinam.....	194	21	60	.....	275	585
Sweden.....	102,145	3,625	44,030	8	149,800	41
Switzerland.....	67,500	1,420	19,000	.....	87,920	46
Syria.....	9,247	.....	2,739	.....	11,986	236
Taiwan (Formosa).....	1,200	1,200	900	.....	3,300	1,392
Tonga.....	80	.....	47	.....	127	232
Transjordan.....	267	19	166	.....	452	664
Trinidad and Tobago.....	3,979	400	1,450	.....	5,829	71
Tunisia.....	12,190	220	1,950	20	14,380	168
Turkey.....	3,350	600	3,400	.....	7,350	1,857
Turks and Caicos Islands.....	17	.....	3	.....	20	265
Union of South Africa.....	177,400	1,150	22,200	24	200,774	41
United Kingdom:						
Channel Islands.....	1,9094	.....	.....	.....	9,094	10
England.....	1,207,574	35,739	358,287	5,134	1,606,734	23
Isle of Man.....	2,698	123	681	.....	3,502	14
Northern Ireland.....	26,307	762	7,442	.....	34,511	37
Scotland.....	107,114	4,138	35,419	1,212	147,883	33
Wales.....	56,014	2,412	17,837	369	76,632	34
Uruguay.....	32,023	883	9,747	.....	42,653	47
Venezuela.....	10,740	550	3,468	.....	14,758	221
Virgin Islands.....	389	6	141	.....	536	41
Yugoslavia.....	7,082	708	2,488	.....	10,278	1,356
Total Outside United States	7,450,105	263,453	2,403,162	37,575	10,154,295	188
United States.....	21,430,503	106,277	3,396,623	(x)	24,933,403	4.9
WORLD TOTAL.....	28,880,608	369,730	5,799,785	37,575	35,087,698	58

(1) Includes buses. (2) Includes trucks. (3) Included with gasoline. (4) Includes cycles. (5) Truck and bus registration include 920 Diesel units not separately classified. (6) Includes Diesel buses. (7) Includes Diesel trucks. (x) Not available.

Trailer Registrations, 1927-1934

Includes Passenger Car Trailers

(Figures from U. S. Bureau of Public Roads)

STATES	1927	1928	1929	1930	1931	1932	1933	1934
Alabama.....	1,472	1,952	3,024	3,550	3,279	3,948	4,007	4,671
Arizona.....	.....	809	1,249	1,346	1,623	1,765	1,989	2,313
Arkansas.....	1,977	2,054	2,808	2,805	3,745	3,118	6,887	7,950
California....	34,126	37,073	42,899	48,532	55,024	61,870	72,696	82,110
Colorado.....	88	85	159	188	258	583	832	946
Connecticut...	150	224	324	480	926	1,384	1,816	2,370
Delaware.....	243	301	389	412	517	649	912	1,356
Florida.....	1,000 ¹	1,000 ¹	900	5,000	6,751	7,522	9,567	9,886
Georgia.....	.....	816 ¹	2,597	2,704	3,317	4,021	5,836	9,293
Idaho.....	186	264	485	450	7,558	9,924	10,039	11,733
Illinois.....	3,489	3,742	5,068	7,341	9,283	8,950	9,228	10,720
Indiana.....	6,599	7,884	10,407	13,646	19,169	23,570	27,996	34,425
Iowa.....	170	230	528	1,542	3,207	2,833	2,416	44,477
Kansas.....	.....	359	960	1,083	1,778	2,014	3,847	3,733
Kentucky.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana....	3,500	4,000	8,000	5,443	5,670	6,624	6,957	6,528
Maine.....	1,012	1,068	1,652	2,207	3,063	4,195	5,893	7,578
Maryland.....	616	683	876	1,008	1,128	1,327	1,383	1,434
Massachusetts	443	547	556	701	650	525	525	752
Michigan.....	17,853	23,198	31,577	44,441	61,932	77,437	78,998	92,184
Minnesota...	3,286	3,894	4,783	9,541	18,291	21,839	19,648	24,707
Mississippi...	2,317	2,919	4,321	3,890	2,580	2,594	850	707
Missouri.....	1,739	2,004	2,686	3,742	5,469	10,008	13,110	18,024
Montana.....	.....	.....	.....	56	59	61	483	506
Nebraska...	1,828	2,975	6,515	10,320	15,737	13,531	14,727	18,640
Nevada.....	104	178	273	330	411	646	631	910
N. Hampshire	565	545	635	935	1,137	1,448	1,922	2,354
New Jersey...	1,827	1,996	2,424	2,639	2,916	2,863	3,162	3,734
New Mexico...	193	340	509	850	778	591	983	918
New York.....	6,936	7,148	8,232	10,205	12,596	13,796	13,545	17,417
No. Carolina..	1,618	1,944	3,584	5,845	8,118	7,774	13,012	20,649
No. Dakota....	.....	.....	.....	.....	.....	39	143	263
Ohio.....	12,134	14,606	15,000	24,356	32,717	45,588	61,156	73,287
Oklahoma.....	.....	.....	.....	.....	.....	.....	4,184	5,420
Oregon.....	.....	1,238	1,308	1,893	2,168	1,706	1,750	1,276
Pennsylvania.	3,780	4,285	5,067	5,684	6,307	7,835	10,139	13,642
Rhode Island.	57	61	87	90	64	68	92	147
So. Carolina...	1,387	1,637	2,048	2,976	2,100	2,041	1,764	1,919
So. Dakota....	.....	.....	.....	.....	4,994	8,852	9,693	10,128
Tennessee....	.....	.....	.....	.....	2,696	3,294	2,982	2,991
Texas.....	9,826	11,955	16,260	29,853	33,861	35,113	36,073	36,978
Utah.....	.....	.....	.....	.....	767	879	457	1,359
Vermont.....	.....	218	280	315	457	519	683	964
Virginia.....	466	646	966	1,318	1,582	1,673	1,906	2,509
Washington...	2,072	2,279	2,986	3,147	3,000	4,543	4,849	5,470
West Virginia.	392	600	725	928	1,270	1,785	2,094	1,084
Wisconsin.....	.....	412	497	715	1,007	1,066	2,565	8,466
Wyoming.....	.....	.....	.....	.....	.....	.....	20	5,398
Dist. of Col..	.....	.....	.....	.....	.....	607	1,112	1,169
Totals....	123,451	148,169	193,044	262,507	349,930	412,998	475,559	615,315

¹—Light trailers only. Heavy trailers reported with trucks. ²—Contract and common carrier trailers reported with trucks. ³—Estimated and excluded from motor trucks as reported. ⁴—Reported with tractors, but here separated as per semi-annual report. ⁵—Not registered. ⁶—Classified with trucks. ⁷—Estimated.

9,231,000 Miles of

(Compiled by Automotive-Aeronautics Trade Division)
Figures as of January 1, 1934.

Country	Area Sq. Miles	Road Mileage	Area to 1 Mile of Road	Auto- mobiles	Automobiles to 1 Mile of Road
AMERICA					
Alaska.....	590,884	1,701	347.4	2,919	1.7
Argentina.....	1,153,417	138,000	8.4	225,031	1.6
Bahamas.....	4,404	419	10.5	1,075	2.6
Barbadoes.....	166	480	0.3	2,172	4.5
Bermudas.....	19	100	0.2	64	0.6
Bolivia.....	613,899	6,835	89.8	3,850	0.6
Brazil.....	3,280,000	92,441	35.3	128,425	1.4
British Guiana.....	89,480	832	10.7	1,121	1.3
British Honduras.....	8,600	111	7.8	184	1.7
Canada.....	3,684,727	409,124	9.0	1,119,276	2.7
Chile.....	286,396	24,356	11.3	32,291	1.3
Colombia.....	497,300	17,086	29.1	14,850	0.9
Costa Rica.....	23,000	360	64.2	2,451	6.8
Cuba.....	44,164	2,474	17.8	27,624	11.2
Dominican Republic.....	19,332	1,083	17.9	12,456	2.3
Ecuador.....	174,000	4,250	40.9	2,501	0.6
French Guiana.....	34,740	28	1240.8	221	7.9
Guadeloupe.....	688	596	1.2	3,150	5.3
Guatemala.....	42,364	3,491	12.1	2,888	0.8
Haiti.....	10,207	1,212	8.4	2,970	2.5
Honduras.....	46,250	611	75.5	1,403	2.3
Jamaica.....	4,450	6,832	0.7	9,195	1.3
Leeward Islands.....	715	527	1.3	685	1.3
Martinique.....	385	721	0.5	2,500	3.5
Mexico.....	767,258	56,923	13.5	90,160	1.6
Netherland West Indies.....	403	279	1.4	2,622	9.4
Newfoundland.....	42,734	816	52.3	3,247	4.0
Nicaragua.....	49,213	1,134	43.4	756	0.7
Panama and Canal Zone.....	32,388	1,000	32.5	9,597	9.6
Paraguay.....	176,000	3,674	47.9	2,800	0.8
Peru.....	524,800	11,703	44.8	14,180	1.2
Puerto Rico.....	3,435	2,286	1.6	15,341	6.7
El Salvador.....	13,176	3,137	4.2	2,240	0.7
Trinidad and Tobago.....	1,976	2,345	0.8	5,829	2.5
United States.....	3,026,789	3,065,254	1.0	24,933,403	8.1
Uruguay.....	72,172	22,487	3.2	42,653	1.9
Venezuela.....	393,976	5,281	74.6	114,758	2.8
Virgin Islands.....	132	178	0.7	1536	3.0
Windward Islands.....	516	760	0.7	791	1.0
Total.....	15,714,555	3,890,927	4.0	26,728,215	6.9
EUROPE					
Aegean Islands.....	977	249	3.9	1382	1.5
Albania.....	17,374	1,255	13.9	910	0.7
Austria.....	32,372	23,370	1.4	34,956	1.5
Azores.....	924	600	1.5	819	1.4
Belgium.....	11,754	18,936	0.6	155,000	8.2
Bulgaria.....	39,825	10,856	3.7	12,081	0.2
Cyprus.....	3,584	3,145	1.1	1,872	0.6
Czechoslovakia.....	54,196	43,169	1.2	116,550	2.7
Danzig.....	830	1,238	0.7	2,765	2.2
Denmark.....	16,574	32,211	0.5	126,987	3.9
Estonia.....	18,376	14,565	1.3	3,524	0.2
Finland.....	132,597	37,495	3.5	31,335	0.8
France.....	212,736	406,909	0.5	1,914,684	4.7
Germany.....	180,989	216,674	0.8	968,000	4.5
Gibraltar.....	2	15	0.1	993	66.3
Greece.....	50,270	6,950	7.2	14,100	2.0
Hungary.....	35,911	33,666	1.1	14,349	0.4

†Figures from the American Automobile's 1935 "World Motor Census."

‡Figures as of Jan. 1, 1933. §Figures as of Jan. 1, 1934.

of Highways in the World

Division, Bureau of Foreign and Domestic Commerce,
Mileage of city streets not included.)

Country (Continued)	Area Sq. Miles	Road Mileage	Area to 1 Mile of Road	Auto- mobiles to 1 Mile of Road
Iceland.....	39,709	2,112	18.8	1,749
Irish Free State.....	26,935	48,054	0.6	51,120
Italy.....	119,744	105,810	1.1	379,514
Latvia.....	25,402	20,259	1.2	3,866
Lithuania.....	21,490	27,496	0.8	2,084
Luxemburg.....	999	2,645	0.4	10,401
Malta and Gozo.....	122	584	0.2	4,093
Netherlands.....	13,213	15,845	0.9	145,500
Northern Ireland.....	5,237	12,997	0.4	34,511
Norway.....	125,617	24,101	5.2	58,463
Poland.....	149,957	140,980	1.1	125,712
Portugal.....	35,796	12,371	2.9	33,950
Rumania.....	113,887	79,811	1.4	23,600
Russia (Inc. As. Rus.).....	8,241,921	1,682,109	4.9	180,000
Spain.....	195,040	64,857	3.0	177,107
Sweden.....	173,143	84,045	2.0	149,800
Switzerland.....	15,944	9,792	1.7	187,920
United Kingdom (excluding Northern Ireland).....	89,041	177,347	0.5	1,843,845
Yugoslavia.....	96,737	25,170	3.8	10,278
Total.....	10,299,225	3,386,869	3.0	6,612,820
AFRICA				
Algeria.....	847,528	32,736	26.2	57,190
Anglo-Egyptian Sudan.....	1,008,000	25,270	39.9	2,620
Angola.....	484,800	23,313	28.0	3,140
Belgian Congo.....	920,849	27,065	34.0	14,828
British South Africa.....	437,950	11,061	39.5	14,644
British Southwest Africa.....	322,400	817	394.6	2,673
Canary Islands.....	3,021	932	3.2	7,645
Egypt.....	386,000	4,178	92.4	23,376
Eritrea.....	45,754	2,233	20.5	1,295
Ethiopia.....	347,490	2,730	127.7	383
French Eq. Africa.....	915,057	14,262	64.2	11,761
French West Africa.....	1,854,714	27,301	68.8	15,380
Gambia and Protectorate.....	4,134	869	4.4	274
Gold Coast.....	80,000	5,936	13.5	6,224
Kenya Colony.....	225,100	7,560	29.8	8,781
Liberia.....	46,332	234	198.1	104
Libya.....	422,831	3,200	132.1	11,025
Madagascar.....	227,734	8,040	28.3	13,850
Madeira.....	314	555	0.6	925
Mauritius.....	720	700	1.0	2,278
Morocco (French).....	162,000	3,961	40.9	27,909
Morocco (Sp. and Int. Zone).....	9,105	1,393	6.5	5,260
Mozambique.....	297,734	14,567	24.0	3,876
Nigeria.....	372,674	14,450	25.8	4,598
Nyasaland.....	37,890	3,142	12.0	1,253
Portuguese Guinea.....	36,125	1,860	19.4	.....
Reunion.....	970	655	1.5	1,060
Seychelles.....	156	153	1.0	86
Sierra Leone.....	31,000	972	31.9	335
Somaliland (British).....	68,000	1,000	68.0	123
Somaliland (French).....	5,790	25	231.6	210
Somaliland (Italian).....	190,000	6,200	30.6	1531
South Africa (Union).....	471,917	111,336	4.2	200,774
Spanish Guinea.....	10,036	194	51.7	.....
Tanganyika.....	373,500	19,075	19.6	3,293
Tunisia.....	48,300	7,143	6.8	14,380
Uganda.....	94,024	7,028	13.3	3,599
Zanzibar and Pemba.....	1,020	243	4.2	515
Total.....	10,790,969	392,389	27.5	415,198

9,231,000 Miles of Highways in World

Country (Continued)	Area Sq. Miles	Road Mileage	Area to 1 Mile of Road	Auto- mobiles	Automobiles to 1 Mile of Road
ASIA					
Afghanistan.....	250,965	1,561	160.8	3,050	2.0
Arabia.....	1,000,000	1,055	947.9	2,771	2.6
British India.....	1,107,358	225,280	4.9	106,378	0.5
British Malaya.....	52,603	5,868	9.1	34,111	5.8
Ceylon.....	25,332	17,002	1.5	21,707	1.3
China (Includes Manchuria and Mongolia).....	4,300,000	51,056	84.2	48,762	1.0
Chosen (Korea).....	85,227	15,435	5.5	7,149	0.5
French Indo-China.....	284,900	19,884	14.3	13,982	0.7
Hong Kong.....	391	377	1.0	3,999	10.6
Iran (Persia).....	628,000	12,278	51.1	6,465	0.5
Iraq.....	143,250	4,652	30.8	4,822	1.0
Japan.....	147,327	594,626	0.2	119,812	0.2
Macao.....	44	64	0.7	.....	.....
Netherland India.....	733,642	35,900	20.4	54,091	1.5
Palestine.....	8,800	1,189	7.4	8,012	6.7
Philippine Islands.....	114,400	9,453	12.1	42,376	4.5
Siam.....	200,149	1,383	144.7	78,250	6.0
Syria.....	74,000	5,705	12.9	11,986	2.1
Taiwan (Formosa).....	13,795	9,750	1.4	3,300	0.3
Timor (Portuguese).....	13,648	250	54.6	.....	.....
Trans-Jordan.....	20,000	569	35.1	452	0.8
Turkey.....	294,492	23,242	12.7	7,350	0.3
Total.....	9,498,323	1,036,579	9.2	508,825	0.5
AUSTRALIA, NEW ZEALAND AND OCEANIA					
Australia.....	2,974,581	468,251	6.4	595,351	1.3
British North Borneo.....	31,106	226	137.6	4250	1.1
British Pacific Islands.....	23,035	350	65.8	511	1.5
Fiji.....	7,083	562	12.6	11,255	2.2
*French Oceania and New Caledonia.....	10,966	186	58.9	783	4.2
Guam.....	210	66	3.2	406	6.2
Hawaii.....	6,449	3,095	2.1	49,147	15.9
New Zealand.....	103,862	50,930	2.0	174,627	3.4
Samoa (American).....	76	30	2.5	60	2.0
Western Samoa.....	1,235	171	7.8	4250	1.5
Total.....	3,158,603	523,867	6.0	822,640	1.6
WORLD TOTAL.....	49,461,675	9,230,631	5.4	35,087,698	3.8

*Includes Society Islands.

Imports of Complete Motor Vehicles by the World's Producing Countries

(Figures from Automotive-Aeronautics Trade Division, U. S. Department of Commerce)

Producing Country	1933	1934	Producing Country	1933	1934
United States.....	534	589	Italy.....	432	117
Canada.....	1,781	2,905	Japan.....	1,271	1,844
Total.....	2,315	3,494	Poland.....	496.3	825.9
Austria.....	762	665	Soviet Russia.....	6	449
Belgium.....	3,524	4,229	Spain and Balearic Is..	13,451	21,732
Czechoslovakia.....	602	736	Sweden.....	3,225	7,506
Denmark.....	698	1,630	Switzerland.....	10,428	10,732
France.....	2,076	1,772	United Kingdom.....	5,021	12,519
Germany.....	2,675	5,018	Total, exc. U. S. and Canada....	44,477	69,852
Hungary.....	312	903	WORLD TOTAL..	46,792	73,346

(*) Including used vehicles. (†) In addition 15,844 units were imported as parts for assembly in 1934 and 10,628 in 1933. Of these 6,236 were exported in 1934 and 2,784 in 1933. (‡) Metric tons. (¶) Not including Poland. (¶) Not available.

Members of Automobile Manufacturers Association

Passenger Car Manufacturers

Trade Name	Member or Manufacturer	Address
Auburn.....	Auburn Automobile Company.....	Auburn, Ind.
Buick.....	Buick Motor Company.....	Flint, Mich.
Cadillac.....	Cadillac Motor Car Company.....	Detroit, Mich.
Chevrolet.....	Chevrolet Motor Company.....	Detroit, Mich.
Chrysler.....	Chrysler Sales Corporation.....	Detroit, Mich.
De Soto.....	De Soto Motor Corporation.....	Detroit, Mich.
Dodge.....	Dodge Brothers Corporation.....	Detroit, Mich.
Duesenberg.....	Duesenberg, Inc.....	Indianapolis, Ind.
Graham.....	Graham-Paige Motors Corporation.....	Detroit, Mich.
Hudson.....	Hudson Motor Car Company.....	Detroit, Mich.
Hupmobile.....	Hupp Motor Car Corporation.....	Detroit, Mich.
Lafayette.....	The Nash Motors Company.....	Kenosha, Wis.
LaSalle.....	Cadillac Motor Car Company.....	Detroit, Mich.
Lincoln.....	Lincoln Motor Company.....	Detroit, Mich.
Nash.....	The Nash Motors Company.....	Kenosha, Wisc.
Oldsmobile.....	Olds Motor Works.....	Lansing, Mich.
Packard.....	Packard Motor Car Company.....	Detroit, Mich.
Pierce-Arrow.....	The Pierce-Arrow Motor Car Company.....	Buffalo, N. Y.
Plymouth.....	Plymouth Motor Corporation.....	Detroit, Mich.
Pontiac.....	Pontiac Motor Company.....	Pontiac, Mich.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
Stutz.....	Stutz Motor Car Co. of America, Inc.....	Indianapolis, Ind.
Terraplane.....	Hudson Motor Car Company.....	Detroit, Mich.
Willys.....	The Willys-Overland Company.....	Toledo, Ohio

Taxicab Manufacturers

Checker.....	Checker Cab Mfg. Corporation.....	Kalamazoo, Mich.
G. M. C.....	General Motors Truck Corporation.....	Pontiac, Mich.

Ambulance and Funeral Vehicle Manufacturers

Cadillac.....	Cadillac Motor Car Company.....	Detroit, Mich.
Packard.....	Packard Motor Car Company.....	Detroit, Mich.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.

Motor Fire Apparatus Manufacturers

Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Mack.....	Mack Brothers Motor Car Company.....	New York, N. Y.
Walter.....	Walter Motor Truck Company.....	Long Island City, N. Y.
White.....	The White Motor Company.....	Cleveland, Ohio.

Members of Automobile Manufacturers Association

Motor Truck Manufacturers

Trade Name	Member or Manufacturer	Address
Autocar	The Autocar Company	Ardmore, Pa.
Chevrolet	Chevrolet Motor Company	Detroit, Mich.
Corbitt	The Corbitt Company	Henderson, N. C.
Diamond T	Diamond T Motor Car Company	Chicago, Ill.
Dodge	Dodge Brothers Corporation	Detroit, Mich.
Federal	Federal Motor Truck Company	Detroit, Mich.
G. M. C.	General Motors Truck Corporation	Pontiac, Mich.
Indiana	The White Motor Company	Cleveland, Ohio
International	International Harvester Company	Chicago, Ill.
LaFrance-Republic ..	Sterling Motor Truck Company	Milwaukee, Wisc.
Mack	Mack Brothers Motor Car Company	New York, N. Y.
Moreland	Moreland Motor Truck Company	Los Angeles, Calif.
Reo	Reo Motor Car Company	Lansing, Mich.
Schacht	The LeBlond-Schacht Truck Company	Cincinnati, Ohio
Sterling	Sterling Motor Truck Company	Milwaukee, Wisc.
Stewart	Stewart Motor Corporation	Buffalo, N. Y.
Studebaker	The Studebaker Corporation	South Bend, Ind.
Terraplane	Hudson Motor Car Company	Detroit, Mich.
Walter	Walter Motor Truck Company	Long Island City, N. Y.
White	The White Motor Company	Cleveland, Ohio
Willys-Overland	The Willys-Overland Company	Toledo, Ohio

Motor Bus Manufacturers

Corbitt	The Corbitt Company	Henderson, N. C.
Federal	Federal Motor Truck Company	Detroit, Mich.
G. M. C.	General Motors Truck Corporation	Pontiac, Mich.
Indiana	The White Motor Company	Cleveland, Ohio
I. H. C.	International Harvester Company	Chicago, Ill.
Mack	Mack Brothers Motor Car Company	New York, N. Y.
Reo	Reo Motor Car Company	Lansing, Mich.
Stewart	Stewart Motor Corporation	Buffalo, N. Y.
White	The White Motor Company	Cleveland, Ohio

Trailer Manufacturers

Corbitt	The Corbitt Company	Henderson, N. C.
Diamond T	Diamond T Motor Car Company	Chicago, Ill.
G. M. C.	General Motors Truck Corporation	Pontiac, Mich.
Mack	Mack Brothers Motor Car Company	New York, N. Y.
Reo	Reo Motor Car Company	Lansing, Mich.
White	The White Motor Company	Cleveland, Ohio

Organization of Automobile Manufacturers Association

A list of Directors and Officers is given on page two

ADVERTISING COMMITTEE

BYRON C. FOY, *Chairman* DeSoto Motor Corporation
 JOHN M. HOWARD General Motors Truck Company
 J. W. DINEEN General Motors Corporation
 F. H. MCKINNEY Packard Motor Car Company
 J. B. WAGSTAFF Plymouth Motor Corporation
 STEPHEN D. BRYCE, JR., *Secretary*

EXPORT COMMITTEE

ROBERT C. GRAHAM, *Chairman* Graham-Paige Motors Corporation
 B. C. BUDD Packard Motors Export Corporation
 A. L. FRANK The Studebaker Export Corporation
 ALLEN C. GERMANN Hudson Motor Car Company
 W. LEDYARD MITCHELL Chrysler Export Corporation
 J. D. MOONEY General Motors Export Company
 GEORGE F. BAUER, *Secretary*

HIGHWAYS COMMITTEE

ROY D. CHAPIN, *Chairman* Hudson Motor Car Company
 A. J. BROUSSEAU Mack Bros. Motor Car Company
 ROBERT C. GRAHAM Graham-Paige Motors Corporation
 ALFRED H. SWAYNE General Motors Corporation
 PYKE JOHNSON, *Secretary*

INSURANCE COMMITTEE

MILTON TIBBETTS, *Chairman* Packard Motor Car Company
 A. C. ANDERSON General Motors Corporation
 A. E. BARIT Hudson Motor Car Company
 D. E. BATES Reo Motor Car Company
 R. P. FOHEY Chrysler Corporation
 A. G. RUMPF The Studebaker Corporation
 J. S. MARVIN, *Secretary*

LEGISLATIVE COMMITTEE

W. H. BREARLEY The Autocar Company
 D. C. FENNER Mack Bros. Motor Car Company
 R. P. FOHEY Chrysler Corporation
 C. J. JOLLY General Motors Corporation
 FREDERICK A. HASTINGS, *Secretary*

MANUFACTURERS COMMITTEE

WILLIAM S. KNUDSEN, *Chairman* General Motors Corporation
 E. F. FISHER Fisher Body Corporation
 E. R. HARRELL Graham-Paige Motors Corporation
 K. T. KELLER Chrysler Corporation
 E. F. ROBERTS Packard Motor Car Company
 IRA B. SWEGLES Hudson Motor Car Company
 WILLIAM J. CRONIN, *Secretary*

MOTOR TRUCK COMMITTEE

A. J. BROUSSEAU, *Chairman* Mack Bros. Motor Car Company
 J. D. BURKE Dodge Brothers Corporation
 T. R. DAHL The White Motor Company
 F. E. EVANS Chevrolet Motor Company
 WILLIAM F. MCAFEE International Harvester Company
 ROBERT P. PAGE, JR. The Autocar Company
 ELIJAH G. POXSON Reo Motor Car Company
 MARTIN L. PULCHER Federal Motor Truck Company
 PAUL W. SEILER General Motors Truck Company
 ARTHUR C. BUTLER, *Secretary*

(Continued on following page)

Organization of Automobile Manufacturers Association

(Continued from preceding page)

PATENTS COMMITTEE

F. J. HAYNES, <i>Chairman</i>	Detroit, Michigan
J. KING HARNESSE.....	Chrysler Corporation
JAMES McEVOY.....	General Motors Corporation
H. S. VANCE.....	The Studebaker Corporation
GEORGE C. ARVEDSON, <i>Department Manager</i>	

SAFETY TRAFFIC COMMITTEE

PAUL G. HOFFMAN, <i>Chairman</i>	The Studebaker Corporation
LEE J. EASTMAN.....	Packard Motor Car Company
R. P. FOHEY.....	Chrysler Corporation
PAUL W. GARRETT.....	General Motors Corporation
ROBERT P. PAGE, JR.....	The Autocar Company
NORMAN DAMON, <i>Secretary</i>	

SALES MANAGERS COMMITTEE

R. H. GRANT, <i>Chairman</i>	General Motors Corporation
W. R. TRACY.....	Hudson Motor Car Company
C. H. BLISS.....	The Nash Motors Company
J. E. FIELDS.....	Chrysler Corporation
M. M. GILMAN.....	Packard Motor Car Company
PAUL G. HOFFMAN.....	The Studebaker Corporation
J. W. DINEEN, <i>Secretary</i>	

SHOW COMMITTEE

ALFRED H. SWAYNE, <i>Chairman</i>	General Motors Corporation
BYRON C. FOY.....	DeSoto Motor Corporation
PAUL G. HOFFMAN.....	The Studebaker Corporation
ALFRED REEVES, <i>Show Manager</i>	

TAXATION COMMITTEE

ROY D. CHAPIN, <i>Chairman</i>	Hudson Motor Car Company
WALTER P. CHRYSLER.....	Chrysler Corporation
ALVAN MACAULEY.....	Packard Motor Car Company
CHARLES W. NASH.....	The Nash Motors Company
ROBERT P. PAGE, JR.....	The Autocar Company
ALFRED P. SLOAN, JR.....	General Motors Corporation
PYKE JOHNSON, <i>Secretary</i>	

TRADE PROMOTION COMMITTEE

ALFRED P. SLOAN, JR., <i>Chairman</i>	General Motors Corporation
ROY D. CHAPIN.....	Hudson Motor Car Company
WALTER P. CHRYSLER.....	Chrysler Corporation
ALVAN MACAULEY.....	Packard Motor Car Company
CHARLES W. NASH.....	The Nash Motors Company

TRAFFIC COMMITTEE

ALFRED H. SWAYNE, <i>Chairman</i>	General Motors Corporation
WALTER P. CHRYSLER.....	Chrysler Corporation
ROBERT C. GRAHAM.....	Graham-Paige Motors Corporation
J. S. MARVIN, <i>Department Manager</i>	

REPRESENTATIVES IN CHAMBER OF COMMERCE OF U. S. A.

T. R. DAHL.....	The White Motor Company
ALFRED H. SWAYNE.....	General Motors Corporation

(Continued on following page)

Organization of Automobile Manufacturers Association

(Continued from preceding page)

REPRESENTATIVE ON HIGHWAY EDUCATION BOARD	
ROY D. CHAPIN	Hudson Motor Car Company
REPRESENTATIVES IN INTERNATIONAL CHAMBER OF COMMERCE	
A. J. BROUSSEAU	Mack Bros. Motor Car Company
ROY D. CHAPIN	Hudson Motor Car Company
J. D. MOONEY	General Motors Corporation
REPRESENTATIVES ON NATIONAL INDUSTRIAL CONFERENCE BOARD	
A. J. BROUSSEAU	Mack Bros. Motor Car Company
ALFRED H. SWAYNE	General Motors Corporation
INFORMATION DEPARTMENT	
STEPHEN D. BRYCE, JR., <i>Manager</i>	
STATISTICAL DEPARTMENT	
	O. P. PEARSON, <i>Manager</i>
DETROIT OFFICE	
KENNETH A. MOORE	
WASHINGTON OFFICE	
	PYKE JOHNSON

Associations of the Automobile Industry

Automobile Manufacturers Association

GENERAL OFFICES: 366 Madison Avenue, at 46th Street, New York, N. Y. Offices at Detroit and Washington.

PRESIDENT: Alvan Macauley, President of Packard Motor Car Company.

VICE-PRESIDENT AND GENERAL MANAGER: Alfred Reeves.

The Automobile Manufacturers Association is the new name adopted in 1934 for the National Automobile Chamber of Commerce which, in turn, was the successor of the National Association of Automobile Manufacturers, organized in November, 1900, and of the Automobile Board of Trade.

OBJECT: To serve as a clearing house of research and information on subjects concerning motor transportation, and to represent the automobile industry in all matters where cooperative effort is proper, efficient, and economical.

Its purposes may be illustrated by listing some of its current activities, which are directed by the committee members:

Cross-licenses more than 1700 patents.

Manages National Automobile Show in New York.

Conducts researches on all matters related to automobile industry.

Studies transportation rates and service. Appears in these matters for automobile industry.

Publishes "Automobile Facts and Figures," and numerous special studies on motor transport topics.

Advocates improved highways located according to economic needs.

Maintains regional information offices in Detroit and Washington.

Acts as contact for the automobile industry with insurance rate makers.

Promotes development of motor car, motor truck, motor bus, and taxicab transportation.

Conducts Motor Truck Educational Bureau which does research and distributes information on driver training, sound taxation principles, management and other phases of commercial transport.

Fosters state organizations of truck owners.

Advocates sound and equitable legislative principles.

Conducts advertising conventions for exchange of views on improved practices, desirable standards, and economies.

Acts as a clearing house for activities encouraging world-wide use of motor transport. Sends representatives to foreign countries promoting broad use of highway transportation.

Numbers of makes of vehicles produced by members: passenger cars, 25; motor trucks, 21; taxicabs, 2; buses, 9; special vehicles, such as fire apparatus, ambulances and funeral cars and trailers, 10.

(Continued on following page)

Associations of the Automobile Industry (Continued)

American Automobile Association

NATIONAL HEADQUARTERS: Pennsylvania Avenue at 17th Street, N. W., Washington, D. C.
PRESIDENT: Thos. P. Henry, 41 Burroughs Avenue, Detroit, Mich.

EXECUTIVE VICE-PRESIDENT: Ernest N. Smith, Washington, D. C.
GENERAL MANAGER: Russell E. Singer.

The world's largest motor federation—composed of 800 motor clubs and approximately 750,000 members. It is a national civic body, operating without personal profit and officered by responsible business and professional men.

OBJECTS: Its objects, briefly stated, are:

To unite in one body all the automobile clubs and individual motorists in the country.

To secure reasonable and just legislation and to aid in proper enforcement of automobile laws and ordinances.

To secure the construction and maintenance of a system of highways adequate to the needs of motor transport.

To encourage travel by automobile, bus, steamship and air, and to secure, prepare, and disseminate information relative thereto.

To support sportsmanlike contests and other movements that will advance motoring interests.

To develop service to motorists through clubs.

To promote highway safety by motorists and pedestrians, and to develop it among children through safety lessons and school boy patrols.

To facilitate touring by Americans in foreign countries, furnish customs papers, driving licenses and necessary documents.

American Motorists Association

ADMINISTRATIVE OFFICES: 1323 Connecticut Avenue, N. W., Washington, D. C.

PRESIDENT: J. Borton Weeks, 260 North Broad St., Philadelphia, Pa.

GENERAL MANAGER: Thomas J. Keefe, 1323 Connecticut Avenue, N. W., Washington, D. C.

A non-profit service organization. Membership nearly 300,000.

OBJECTS are to aid in the organization and maintenance of automobile associations and clubs to promote the welfare of motorists; to compile and distribute information on touring, roads and laws; to promote good roads, safety on the highway, in short, any and all activities in the interest of motorists.

American Trucking Associations, Inc.

GENERAL OFFICES: 623 Transportation Building, Washington, D. C.

PRESIDENT: Ted V. Rodgers.

MANAGER: John V. Lawrence.

The American Trucking Associations, Inc., organized in Washington in September, 1933, is composed of 108 regional, state and local motor truck associations, representing throughout the country ownership, by all types of operators, in excess of 500,000 trucks. It is a federation of associations, operating without profit and officered by truck operators for the purpose of promoting the best interests of the Trucking Industry.

It is the recognized national spokesman for the Trucking Industry and contacts regularly all Federal departments in which arise matters pertaining to trucking and other forms of transportation. It is the authorized agency of the National Code Authority for the Trucking Industry.

Automotive Trade Association Managers

GENERAL OFFICES: Inquirer Building, 400 N. Broad St., Philadelphia, Pa.

PRESIDENT: Herbert Buckman.

VICE-PRESIDENT: H. H. Stuart.

SECRETARY-TREASURER: W. P. Berrien.

A National Association composed of managers of local automobile dealer associations, and of automobile shows sponsored by these local organizations.

Motor and Equipment Manufacturers Association

EXECUTIVE HEADQUARTERS: Fisk Building, 250 West 57th Street, New York.

PRESIDENT: Mason T. Rogers, Multibestos Co., Cambridge, Mass.

GENERAL MANAGER: Albert H. Eichholz, Fisk Building, New York, N. Y.

National organization, representing interests of manufacturers of raw materials; machinery; tools; motors; automotive, aircraft and marine accessories, parts and equipment; mechanical and electrical devices. Maintains credit, sales development, export, trade and national shows, legislation and group activities departments.

Motor and Equipment Wholesalers Association

EXECUTIVE HEADQUARTERS: Daily News Bldg., 400 W. Madison St., Chicago, Ill.

PRESIDENT: E. T. Satchell, E. T. Satchell Co., Allentown, Pa.

GENERAL MANAGER: B. W. Ruark, 400 W. Madison St., Chicago, Ill.

National organization representing interests of automotive jobbers, distributing merchandise generally as follows: Parts, equipment, accessories, and supplies in the automotive, aircraft and marine line.

Maintains an information bureau for members and disseminates information pertinent to operations of the automotive jobbing industry.

Conducts Collection Service and Adjustment Bureau, and Merchandise Exchange Department.

Through regional association groups correlates jobber opinion on matters of trade interest and conducts a continuous national information distribution service through means of regional key line distribution charts.

Motor Vehicle Conference Committee

OFFICES: 366 Madison Avenue, New York City.

CHAIRMAN: D. C. Fenner.

SECRETARY: Frederick A. Hastings.

Organized in 1919, is composed of representatives from the following organizations: American Automobile Association, Motor and Equipment Manufacturers Association, National Association of Motor Bus Operators, Automobile Manufacturers Association, National Automobile Dealers Association, Rubber Manufacturers Association, Inc., and the Society of Automotive Engineers.

This Committee acts as a clearing house for the legislative problems which, in increasing numbers, are confronting the individual members of its component organizations.

(Association list continued on following page)

Associations of Automobile Industry (Continued)

National Automobile Dealers Association

GENERAL OFFICES: 634 N. Grand Boulevard, St. Louis, Mo.

PRESIDENT AND GENERAL MANAGER: F. W. A.

Vesper, St. Louis, Mo.

TREASURER: L. M. Stewart, St. Louis, Mo.

SECRETARY: J. O. Munn, St. Louis, Mo.

OBJECT is promotion of automobile dealer business, constructive publicity on dealer aims, maintenance of high merchandising standards, research on selling opportunities of the business, study of markets and dissemination of facts concerning the same, opposition to harmful legislation, support of good legislation, promotion of good roads.

National Association of Sales Finance Companies

GENERAL OFFICES: 360 N. Michigan Avenue, Chicago, Ill.

PRESIDENT: T. E. Courtney, DeKalb, Ill.

EXECUTIVE VICE-PRESIDENT: John R. Walker.

SECRETARY: Milan V. Ayres.

A national organization representing automotive financing and insuring interests along the following lines: Advocates sound credit terms. Defends installment selling. Opposes vicious state and national legislation and promotes desirable legislation. Distributes valuable data in the shape of educational, legal, statistical, and trade bulletins and briefs. Secures material reduction in cost of essential services used by members. Arranges for interchange of service between members in collection and credit work and location of seized and embezzled motor vehicles.

National Association of Motor Bus Operators

PRESIDENT: A. M. Hill, 601 Virginia St., Charleston, W. Va.

VICE-PRESIDENT: E. W. Wakelee, 80 Park Place, Newark, N. J.

SECRETARY-MANAGER: John M. Meighan, 823 Tower Building, Washington, D. C.

Membership in the National Association of Motor Bus Operators is open to all operators of motor buses, to state associations of motor bus operators, and to manufacturers, distributors and other persons, firms, or corporations having dealings of a general nature with operator members of the Association.

All activities that promote the welfare and prosperity of motor bus operators and of the bus industry as a whole are within the scope of the Association's program. These include national, state and municipal legislation, important litigation, the collection and dissemination of bus operating cost and tax data, and the distribution to the public of facts on the economy and convenience of bus travel.

National Association of Taxicab Owners

HEADQUARTERS: 500 North Dearborn Street, Chicago, Ill.

PRESIDENT: W. W. Cloud, Baltimore, Md.

SECRETARY: J. G. Williams, Chicago, Ill.

PURPOSES

To afford our members a medium of cooperation. To collect and disseminate information that promotes the economical conduct of the taxicab business.

To establish and maintain cordial relations with the public.

To strive for safety on the highways.

National Highway Users Conference

HEADQUARTERS: National Press Building, Washington, D. C.

CHAIRMAN: Alfred P. Sloan, Jr., President, General Motors Corporation, New York, N. Y.

VICE-CHAIRMAN: Ernest N. Smith, Executive Vice-President, American Automobile Association.

SECRETARY-TREASURER: L. J. Taber, Master, The National Grange.

DIRECTOR: Roy F. Britton, National Press Bldg., Washington, D. C.

Encourages the development of equitable policies of taxation for the use of public highways and endeavors to prevent imposition of unjust burdens upon highway traffic.

Serves as a clearing house for information on proposed national, state and municipal legislation affecting motor vehicle taxation and regulation and highway construction.

National Standard Parts Association

GENERAL OFFICES: 1420 United Artists Building, Detroit, Mich.

PRESIDENT: D. W. Rodger, Federal-Mogul Corp., Detroit, Mich.

EXECUTIVE VICE-PRESIDENT: E. P. Chalfant, 1420 United Artists Building, Detroit, Mich.

MEMBERSHIP comprises corporations, firms or persons engaged in manufacturing and/or jobbing standard brands of automotive service parts, materials, shop tools and equipment.

OBJECTS: The objects of the Association are to promote an enlarged acquaintance and a more friendly intercourse among its members and in all reasonable and proper ways to promote the best interests of the automotive service parts trade.

The Rubber Manufacturers Association, Incorporated

GENERAL OFFICES: 444 Madison Avenue, New York City.

CHAIRMAN OF THE BOARD: A. F. Townsend, Raybestos-Manhattan, Inc.

PRESIDENT AND GENERAL MANAGER: A. L. Viles.

SECRETARY: R. H. Goebel.

A national trade organization embracing rubber manufacturers of the United States.

Its membership consists of 150 firms, and its object is to promote in all lawful ways the commercial interests of its members, and secure the advantages to be obtained through mutual co-operation, also to stimulate social intercourse among those connected with the rubber industry and commerce and in general for the promotion of the welfare of the rubber industry.

Society of Automotive Engineers, Inc.

GENERAL OFFICES: 29 W. 39th St., New York City.

PRESIDENT: W. B. Stout, Detroit, Mich.

SEC'Y AND GEN'L MANAGER: John A. C. Warner.

OBJECT of the Society is to promote the arts, sciences, standards, and engineering practices connected with the design, construction and utilization of automotive apparatus, of all forms of self-propelled or mechanically propelled mediums for the transportation of passengers or freight, and internal combustion prime-movers. Publications are: *Transactions* (annual); *S. A. E. Membership Roster* (annual); *The S. A. E. Journal* (monthly); and *S. A. E. Handbook*, including *Standards and Recommended Practices* (revised semi-annually). Several hundred distinct mechanical and material standards, specifications, mounting dimensions of parts and accessories have been established by S. A. E.

Membership over 5,500.

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